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*The*
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SEPTEMBER 11, 1948

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*manufactured by*
**MAY & BAKER LTD.**
*distributors*
**MACEUTICAL SPECIALITIES (MAY & BAKER) LTD. DAGENHAM**

P.A.T.A.

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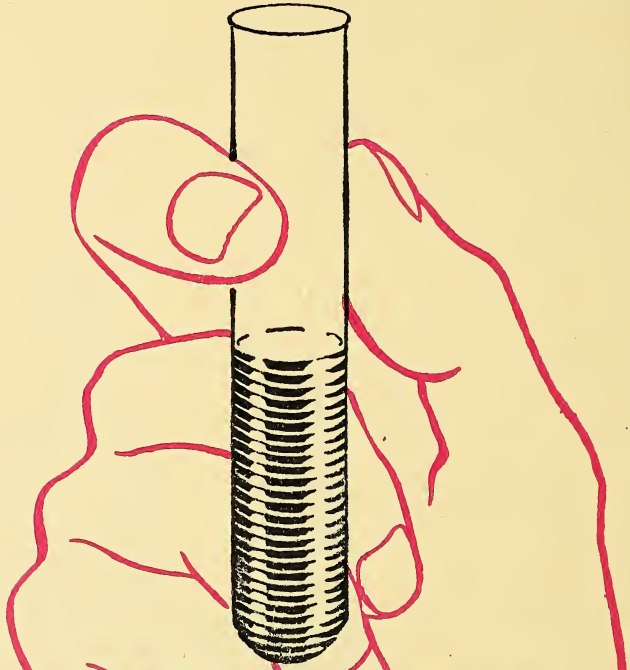

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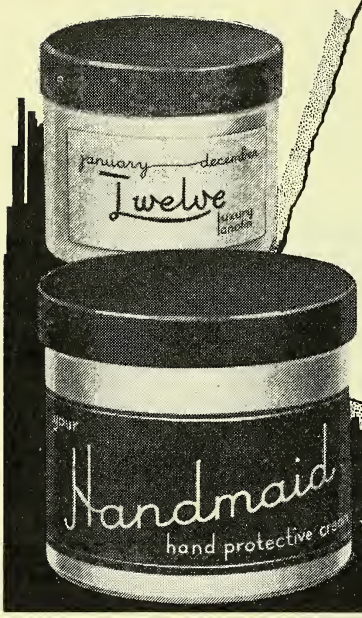


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*containing OLESTOL*

*Washes hair shimmering clean without making it harsh and dry!*

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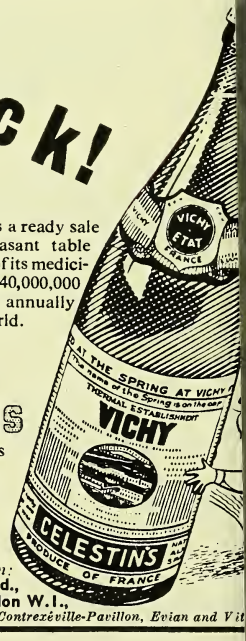


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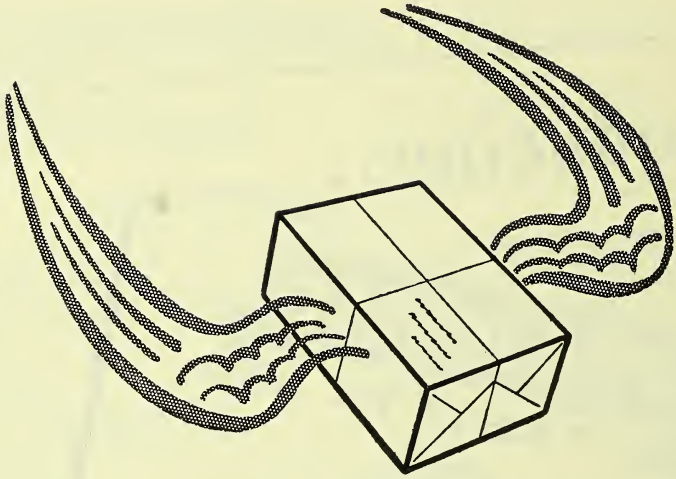

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**THE MODERN ANTISEPTIC**

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**PREPARED WHEAT GERM**

**A RICH SOURCE OF VITAMIN B**

Eaten as a cereal or sprinkled on other cereals, stewed fruit, etc.

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The new hour-glass waist

*This is one of Pierre Pagès delightful drawings for Atkinsons nation-wide advertising under the title "Today in Bond Street."*

BY APPOINTMENT
PERFUMERS TO H.M. THE KING
J. & E. ATKINSON LTD.

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Containers of 500—23/- each
Containers of 1,000—45/- each

**STERAMIDE—Ag.**

A solution containing 30% sulphacetamide soluble and 5% silver vitellinate
Pipette bottles containing 25 c.c.—6/- each

**SULPHADIAZINE—0.5gm. tablets**

Containers of 100—17/6 each
Containers of 500—85/- each
Containers of 1,000—152/6 each

*The above prices are subject to the usual discounts*

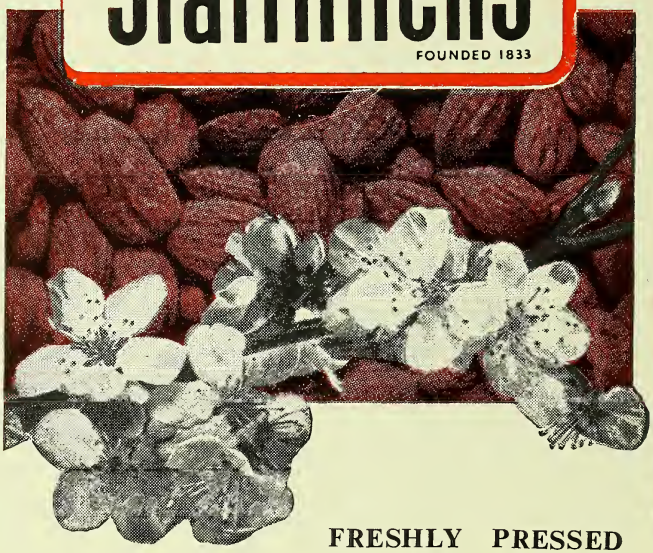
**WARD, BLENKINSOP & CO. LTD.**

6 HENRIETTA PLACE - LONDON - W.1

Telephone: Langham 3185 Telegrams: DUOCHEM, WESDO, LONDON

# StaffAllenS

FOUNDED 1833



FRESHLY PRESSED

# *Almond Oil*

A product of unrivalled quality now again being manufactured in our Wharf Road Plant.

Raw materials are limited, but we will do our best to keep you supplied.

STAFFORD ALLEN & SONS LTD. Wharf Road, London. N.1. 'Phone CLErkenwell 1000 (7 lines

TAS/AL.20

# DRENE LAUNCH MAMMOTH £5,050 COMPETITION!

THIS great, nation-wide Drene Competition is backed by the biggest Shampoo advertising campaign ever! *Your* customers cannot miss the **48,000,000 POWERFUL ADVERTISEMENTS, MANY OF THEM FULL COLOUR PAGES.** There will also be over 1,500 full-size hard-hitting posters. *Your* customers will read this advertising and will want to enter for this easy free competition. *Your* customers have simply to complete the sentence: "I like Drene Shampoo because . . . . " in 25 additional words, or less. Prizes: 1st—£2,000; 2nd—£500; 150 Prizes of £10 and 1,000 Prizes of £1 . 1 . 0 vouchers, *each of which may be redeemed by a Drene stockist.*

Full range of forceful display material has been sent to you direct. Customers will come to your shop for entry forms and to buy their Drene. So use your Displays to the full — every entry means another Drene sale for you.

**If you have not received full Display Material —or require more entry forms—write at once to Thos. Hedley & Co., P.O. Box 88, Newcastle-on-Tyne.**

## YOU CAN MAKE BIG MONEY THESE 3 WAYS

**1** Display Drene on your Counter. Every one of your customers will want to enter. Each entry means another sale.

**2** Display the Special contest material. The more entries, the more business.

**3** Make sure your customers enter. The more entries, the bigger chance *you* have of winning one of the special prizes.

## FREE CASH PRIZES FOR *YOU*

**£200** if your name appears on the entry form of the 1st Prizewinner.

**£50** if your name appears on the entry form of the 2nd Prizewinner.

**£1.1.0** for each of the 150 Ten Pound prize entries on which your name appears.

# Steady sales and good supplies

Extensive advertising of D.D.D. Balm — in the national provincial and periodical press and the women's journals — is a constant reminder to a receptive public — the mothers of babies and of young children. That is why the sales of D.D.D. Balm are so steady. Supplies are now equal to demand — your wholesaler can deliver from stock.

D.D.D. Balm is specially prepared for sensitive skins. It does not sting, does not burn. It is white, non-greasy and does not stain. D.D.D. Balm quickly clears napkin rash, teething rash, chapping and chafing. D.D.D. Balm is safe and speedy for babies skin troubles.

*TRADE TERMS: 16/- per dozen. Purchase Tax 5/4d. per dozen. Inclusive retail price 2/2½ per jar.*

# D.D.D. BALM

D.D.D. COMPANY L
3 FLEET LANE, LONDON,

DISTRIBUTOR FOR NORTHERN IRELAND—MESSRS. J. & W. C. GAW, 30 BANKMORE ST, BELF
DISTRIBUTOR FOR EIRE—MESSRS. HENRY FINN & CO., LTD., CENTRAL HOTEL STOCKRO
EXCHEQUER STREET, DUBLIN

---

M28 is a totally different, safe and deceptively simple preparation which is giving consistently positive results in relieving common types of menstrual pain. This form of direct therapy is being prescribed by doctors throughout the British Isles. You can expect a steadily increasing demand.

***If you have no supplies when a patient or an enquirer is in need of M28—there's one sale lost for at least 28 days.***

| | |
|---|---|
| TRADE COST PER DOZEN | 24/- |
| TAX PER BOTTLE | 8d. |
| RETAIL PRICE PER BOTTLE | 3/8d. |

P.A.T.A. *Obtainable through wholesalers in the normal way.*

GYNOCLINICAL LABORATORIES LTD., 17 Dartmouth Street, Westminster, S.W.

PACKED IN A NEW

PLASTIC CONTAINER

# PRESENTING

# TRI-BUSOL

## THE ANTISEPTIC FOOT POWDER

**WHAT IS TRI-BUSOL?** A dermatological foot powder devised by research chemists to combat foot ailments amongst Troops during the war. Great success has been achieved in the treatment of certain infections popularly known as Athlete's Foot, cracked skin, excessive perspiration, etc.

**HOW IS TRI-BUSOL PACKED?** Presented in a smart plastic pack, needing only one hand to spray out the powder. Hygienic and waterproof to ensure it reaching its proper place—the bathroom. Its pleasing design makes a powerful sales appeal.

**WILL TRI-BUSOL SELL?**

A nation-wide advertising campaign will create a tremendous market for Tri-busol. There is no other similar foot powder on the market. Order now in readiness to meet the demand.

**WHAT DOES TRI-BUSOL COST?**

Tri-busol will retail at 3s. 6d. per container, which will allow you a very generous margin. Remember that best terms can be obtained if you order other Griffiths Hughes products at the same time.

**WHO MAKE TRI-BUSOL?**

E. Griffiths Hughes, Ltd., are the makers, famed for their Kruschen Salts, Radox, Digestif Rennies, Karsote Inhalent, Baxen, Wex,

Kwells, Karswood Dog Powders, Pig Powders, Poultry Spice, etc. Send your order to E. Griffiths Hughes, Ltd., Adelphi, Manchester, 3.

*Organon Laboratories specialise*

*in the production of the Hormones and offer to Pharmacists the widest range available in all appropriate Pharmaceutical forms and strengths*

*Price list on request*

ORGANON *Laboratories Ltd.*

BRETTENHAM HOUSE, LANCASTER PLACE, LONDON, W.C.2

Telephones: TEMple Bar 6785/6/7 0251/2 Telegrams: Menformon, Rand, London

*The Brand that rings the bell!*

**Keep your cash register busy by showing the attractive "Autumn Sun" display card, linking up with "Autumn Sun" national advertising. These, plus "Edme" quality and "that butterscotch flavour," ring a bell with the public.**

NATIONALLY ADVERTISED
Advertising in national Press will appear throughout the Season. FREE—handsome Jar-holder display showcard in full colour creates sales.

EDME
Autumn Sun
MALT AND OIL

**Manufactured from finest ingredient obtainable.** *Full particulars from:*

**EDME LIMITED · IMPERIAL HOUSE, REGENT ST., LONDON W.**

*TELEPHONE* REGENT 5563-4

# Now in Better Supply!

Pharmacists will welcome the information that a marked improvement in production now permits the removal of restrictions on supplies. Orders may now be placed without limitation on quantity, thus enabling chemists to meet the continually increasing demand for this popular antacid.

# 'Milk of Magnesia'

Regd.

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD., 179, ACTON VALE, LONDON, W.3.

# The Nutritional Factors of Bemax

## vitamins (per oz.)

| | |
|---|---|
| $B_1$ - - 0.45 mg. | nicotinic acid 1.7 mg. |
| $B_2$ (riboflavine) 0.3 mg. | $B_6$ - - 0.45 mg. |
| | E - - - 8.0 mg. |

## protein, minerals, etc.

| | |
|---|---|
| protein (first-class—see †) - 30% | water - - 5% |
| carbohydrate - 39% | fibre - - - 2% |
| fat - - - 8.5% | * iron 2.7 mg. per oz |
| mineral salts* - 4.5% | * copper 0.45 mg. per oz |

## † essential amino acids

| | fresh weight basis | 16% N basis |
|---|---|---|
| arginine | 2.5% | 8.3% |
| histidine | 0.9% | 3.0% |
| lysine | 1.8% | 6.0% |
| tryptophane | 0.3% | 1.0% |
| phenylalanine | 0.9% | 3.0% |
| cystine | 0.3% | 1.0% |
| methionine | 0.5% | 1.6% |
| threonine | 1.2% | 4.0% |
| leucine | 2.1% | 7.0% |
| isoleucine | 1.3% | 4.3% |
| valine | 1.6% | 5.3% |

*This advertisement, including the analyses, is copyright.*

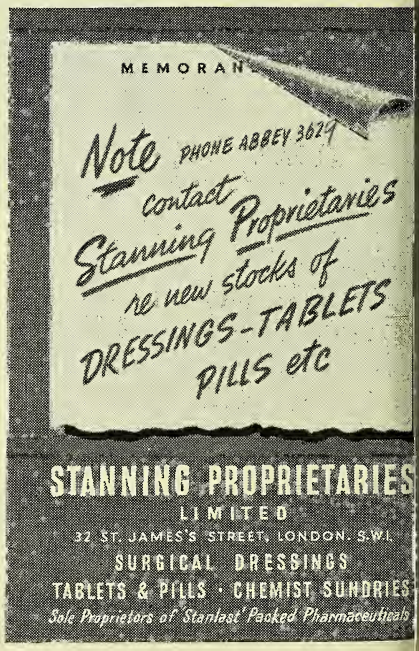
**Bemax** ***stabilised cereal embryo***

*"Vitamin Therapy—its uses and limitations," 42 pp., with therapeutic index, may be obtained on application to Medical Dept. 47 A.A.*

Pharmacists are invited to call at Stand No.63, Chemists' Exhibition, Central Hall, Westminster, London, S.W.1. (Sept. 20—24).

*Vitamins Limited*

*Upper Mall, London, W.6*



# Spraygloss is back!

## To meet the demand for the 'Up-to-the-minute' hair beautifier

● ***SPRAYGLOSS IS DIFFERENT!*** A new kind of hair-beautifying preparation that sprays loveliness and sparkle into every shade of hair. Spraygloss has been perfected over a long period of test and research.

● ***THE MARKET IS GREAT.*** Now that supplies permit, Spraygloss is being launched nationally. It is already a sales success in the selected areas to which previously it had to be limited owing to material shortages.

● ***IT'S NEW BUSINESS FOR YOU— SIMPLE TO STOCK— EASY TO SELL!***

Spraygloss comes in two types :—

No. 1 for normal or dry hair; No. 2 for naturally oily hair. Both types are sold in complete "bottle with spray" packs and also in refill packs. No complications with different shades for different colours of hair.

● ***YOU CAN STOCK WITH CONFIDENCE*** because Spraygloss :—

★ is marketed by D. & W. Gibbs Ltd.
★ gives generous Trade Terms
★ retails complete with Fyne-mist Spray at **ONLY 5/8** *(inc. tax)*
Refills 3/2 *(inc. tax)*

# Spraygloss

*Brings beauty to women* – ***PROFIT TO YOU!***

SPT 1-956 D. & W. GIBBS LIMITED

# BIGGEST VALUE MONEY CAN B
# WHILST STOCKS LAST

£25 WORTH OF FIRST CLASS COSMETICS

for £10-16-6

PER PARCEL

★ Including Purchase Tax

Carriage Paid

★ SAMPLE PARCEL

1 doz. 4-oz. Brilliantine (fancy bottle)
1 doz. 2-oz. Brilliantine (fancy bottle)
1 doz. 4-oz. Cologne & Lavender (6 of each, fancy bottle)
1 doz. 2-oz. Cologne & Lavender (6 of each, fancy bottle)
1 doz. Lipsticks in enamel spiral cases (4 shades)
1 doz. Lipstick Refills (4 shades)
1 doz. " Request " Talcum Powder, perfumed. 4-oz.
1 doz " My Secret " 2-dram Perfumes (12 in box)
1 doz. " My Secret " 1-oz. Perfumes (French bottle)
1 doz. " Fascination " Face Powder, assorted shades
1 doz. Solid Brilliantine
1 doz. Block Rouge
6 doz. " Request " Shampoos
3 doz. " Maestro " GIANT shaving Sticks

SEND REMITTANCE and order now

**ESMOREA Chemical Products Ltd., 106 Regent St., London, W**

The House for
**TABLETS & PILLS**
We manufacture a complete range and supply packed or in bulk... Also we make to private formulæ.
PROPRIETARY REMEDIES PREPARED & PACKED

**BULK TABLETS**
including
**N.F. and N.W.F. lines**
supplied in convenient quantities from 100 upwards

The COOPER Laboratory Ltd.
THE SPECIALIST HOUSE
WATFORD

NASCENT **SULPHAQUA** SULPHUR

**MEDICATED SOAP** PRESCRIBED MEDICALLY FOR **BATH CHARGES**

ECZEMA - ACNE - SEBORRHŒA and OTHER SKIN and SCALP AFFECTIONS
**NO COUPONS IF PRESCRIBED**
12/- Doz. + 4/- P.T. - - Retail 1/7 Inc. Tax

RHEUMATISM - LUMBAGO - SCIATICA GOUT and PARASITIC SKIN AFFECTIONS
**RELIEVES SEVERE PAIN & ITCHING**
6/- Doz. + 2/- P.T. - - Retail 10d. Inc. Tax

S. P. CHARGES CO., ST. HELENS, LANCS. - Est. 1895

PRECIPITATED
CALCIUM CARBONATE
STURGE

A FINE CHEMICAL
FOR INDUSTRIAL USE

★

JOHN & E. STURGE LTD
BIRMINGHAM 15, ENGLAND

# The Greatest of All Tonics-

**WITH A WORLD-WIDE REPUTATI**

The familiar Phosferine pack has won for itself an enviab world-wide goodwill. It has only to be shown to be sol And the sales of Phosferine prove how adequately "T Greatest of all Tonics" lives up to its claims. Make t most of the wonderful popularity of Phosferine by ensurin that your stocks are adequate to meet the demand.

# PHOSFERINE

## TABLETS and LIQUID

*The Registered Trade Mark "Phosferine" is the property of PHOSFERINE (ASHTON & PARSONS) LIMITED.*

*Retail Prices:* **1/6 and 3/8 including Purchase**

**Sole Distributing Agents in the United Kingdom:**
**BEECHAMS PILLS LIMITED, ST. HELENS, LAN**

---

GROUND
# DRIED YEAST
**MIDGLEY & PARKINSON, LTD.**
**WARREN WORKS, PUDSEY, LEEDS**

---

**BLYTON ASTLEY & CO., LTD.**
**Eagle Laboratories**
**LOWER BROUGHTON, MANCHESTER**
thank their customers for their patience and f bearance during these difficult times, and ass them that every effort is being made to sup quickly lines which they have previously purchas

---

# MILLAMALT

**Malt Extract with added Natural Vitami**

*Sole Manufacturers:* JEFFREYS, MILLER & CO. LTD (A6500 I.U., D400 I.U. PER FL. OZ.)
Leyland Mills, Wigan. *London Dept.* 19 Brookside Rd. N

---

# "Silktona"
## HOME PERMANENT WAVE
*(Guaranteed)*

Price to the Public 3/9 including Tax | Order now from your usual Wholesalers

*Sole Distributors:*
**ALFRED FRANKS & BARTLETT CO. LTD.**
Audrey House · Ely Place · London, E.C. I

---

# G. O. WOODWARD & Co. Ltd

Specialists in the manufacture of
**COMPRESSED MEDICINAL TABLETS**
HOME & EXPORT ENQUIRIES INVITED

**146 Larkhall Lane, Clapham,**
**LONDON, S.W.4.**
Telephone: MACAULAY 4375

# THIS WINTER 235 MILLION ADVERTISEMENTS LIKE THESE

*will move stocks so fast they will need watching*

**Winter brings awkward twinges. . . . You can offer safe and quick relief with "SLOAN'S." Your Sales go on all the year round, but they will jump now—how are your "SLOAN'S" stocks?**

*Retail Price .....2/3 per bottle (Including Tax)*

| | | |
|---|---|---|
| *List Price.....16/- per dozen* | | *Plus* |
| *6 dozen Price ..... 15/3 per dozen* | | *Purchase Tax* |
| *12 dozen Price.....14/9 per dozen* | | *@ 5/4 per dozen* |

*The prices per dozen apply to Retail Pharmacists only.*

**WILLIAM R. WARNER & CO. LTD.,**
POWER ROAD LONDON, W.4
Sole Distributors for DR. EARL S. SLOAN LTD.

PATA

**AT LAST!**

**deliveries without delay**

WE are glad to announce that we have at last been able to increase production sufficiently to meet the ever growing demand for Juno-Junipah.

ORDERS can now be placed for any reasonable quantities with the certainty of prompt delivery.

**THOMAS MARNS LTD.,**
**2, Caxton St., London, S.W.1**
Phone: Whitehall 6310

# JUNO-JUNIPAH

*The Woman's Own Health Salts*

(C

BACKED BY NATIONAL ADVERTISING THERE IS AN INCREASING DEMAND FOR

**NUCTA OIL**

THE SOAPLESS OIL SHAMPOO

*The Treatment Shampoo for Dry Scalp and Dandruff. Can be Recommended with Confidence*

In 8 oz. bottles selling at . . 3/10
25/- per doz. plus tax
(Carriage paid on net order of £2)

ORDER FROM YOUR USUAL WHOLESALER OR DIRECT FROM THE MANUFACTURERS

**STEWART, GOODALL & DUNLOP LTD**
121A PRINCES ST., EDINBURGH

*Antiphlogistine*
TRADE MARK

P.A.T.A.

=A QUALITY PRODUCT
THERAPEUTIC RESULTS
SATISFIED CUSTOMERS
REPEAT SALES
PROFITS

*Antiphlogistine is a good trade-builder*
*It pays to feature it*

**THE DENVER CHEMICAL MFG. CO.**
12, CARLISLE ROAD, LONDON, N.W.9

HOW

# GALA of LONDON'S Colour Policy

BUILDS BUSINESS FOR *YOU*

## N° 3 *Face colour varied at will*

**Nos. 1 and 2 in GALA'S Colour Policy, described in previous advertisements, were concerned with Lipstick matched to Clothes, and Make-up Keyed to Lipstick.**

No. 3 in GALA of LONDON's Colour Policy allows women to vary their complexion colour just as they vary their clothes and lipstick colours. Fashion experts proclaim that women are no longer types condemned to wear the shades someone says they must wear. On the contrary, women are free to alter their complexion tone by using a *tinted* foundation to create whatever skin colour they desire.

***How GALA creates complexion colour*** GALA's *tinted* Foundations are made in six shades, matched to face powder shades. These foundations really tint the skin, so that a woman can be 'pink and white' for one occasion and 'suntanned' for another. No longer need a woman use only one shade of face powder—instead—she keeps several to choose from—depending on the occasion or her mood.

***Foundations for each skin type*** One Foundation will not suit every skin, so GALA makes three. An oily liquid (GALA GLEAM) for extra-dry skins. A cream (GALA BASE) for normal skins. A matt liquid (GALA FILM) for oily skins. But all the foundations are made in six shades to give women the same freedom of colour for the complexion as GALA Lipstick gives them for their lips.

***Powder matched to Foundations***

As GALA Powder shades are matched to the Foundation shades, it is simple to use them together. Whatever shade is used in the Foundation is matched in Face Powder and called by the same name. *The shades are:—*

| | |
|---|---|
| **Cherub** | A pastel pink |
| **Lotus** | A creamy rachel |
| **Nectarine** | A rose peach |
| **Honey** | A dark rachel |
| **Rio** | A bronze peach |
| **Sarong** | A deep golden tan |

***Pack*** GALA Powder is in a hinged lidded box with a device in the lid that seals a hole in the box when closed. When open, the powder can be poured from this hole into a compact or bowl. The box is never damaged in use and remains intact until the powder has been finished. The shade is visible through the bottom of the box, so that the cellophane wrapping need not be removed to open the box before selling and the retailers' stock is always kept in perfect, saleable condition.

And so, as with GALA's Colour Policy for Lipstick matched to clothes and Make-up keyed to Lipstick, GALA's Colour Policy for the complexion is an active selling policy, bringing increased turnover to selected GALA outlets.

*The Fashion Leader in Colour in Make-up*

Burlington Arcade, Piccadilly, London, W.1

DISTRIBUTORS: MYRAM PICKER LTD., HOOK RISE, SURBITON, SURREY

# "ZEMS"

## HERBAL LICORICE TABLETS

**THE BEST MEDICATED TABLETS FOR COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.**

CHEMISTS' CF FORMULA

*Supplies may be obtained from C.F. Wholesale Houses*

**ZEMS LTD.**

**718-724 Seven Sisters Road, London, N.15**

# MANESTY

# TABLET MAKING MACHINERY

MANESTY F TABLET MACHINE — OUTPUT 90 PER MIN. FOR TABLETS UP TO ¾ DIAM.

MANESTY Nº1 TABLET MACHINE — OUTPUT 90 PER MIN. FOR TABLETS UP TO ½" DIAM.

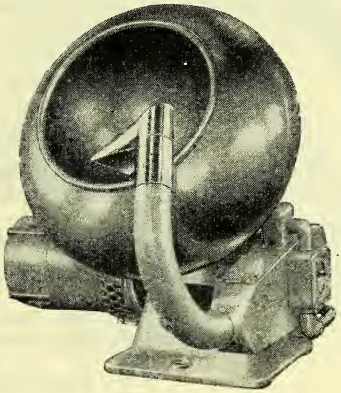
MANESTY E TABLET MACHINE — OUTPUT 90-100 PER MIN FOR TABLETS UP TO ½" DIAM.

MANESTY HAND COMPACT PRESS — OUTPUT 2000 COMPACTS PER DAY

MANESTY COPPER COATING PAN STANDARD SIZE 30" DIAM.

MANESTY B.B.3 ROTARY TABLET MACHINE — OUTPUT 1000-1500 PER MIN. FOR TABLETS UP TO ½" DIAM.

ONE OF THE MANESTY NEW MODELS!



BCP2 BENCH COATING PAN WITH HOT AIR BLOWER

MANESTY B3 ROTARY TABLET MACHINE — OUTPUT 400-500 PER MIN. FOR TABLETS UP TO ½" DIAM.

MANESTY Nº2 TABLET MACHINE — OUTPUT 55-220 PER MIN. FOR TABLETS UP TO 1½" DIAM.

MANESTY D3 ROTARY TABLET MACHINE — OUTPUT 300-350 PER MIN. FOR TABLETS UP TO 1" DIAM.

MANESTY R.S.1 ROTARY TABLET MACHINE — OUTPUT 168-336 PER MIN. FOR TABLETS UP TO 1⅜" DIAM.

MANESTY OSCILLATING GRANULATOR — OUTPUT 150-224 LBS. PER HOUR

MANESTY MIXER — CAPACITY 100 LBS. OF POWDER

MANESTY Nº3 TABLET MACHINE — OUTPUT 30-400 PER MIN. FOR TABLETS UP TO 2¼" DIAM.

# MANESTY MACHINES LIMITED

5 SPEKE HALL ROAD, LIVERPOOL, 19

TELEPHONE: HUNTS CROSS 1321 TELEGRAMS: MANESTY, LIVERPOOL

*Carriage paid*

*Whether your order is for one handbag phial of perfume, a lipstick refill or a crate of GOYA products—we always pay delivery carriage. We also pay postage on any special order you may ask us to send direct to one of your customers. Yes, whatever its size, wherever it goes, your GOYA order is despatched carriage paid.*

Goya

*161 NEW BOND STREET LONDON W1*

· JOHN KNOX · JOHN KNOX · JOHN KN

**Chemists Exhibition**

**LONDON — SEPT. 1948**

SLEEPYLAND FEEDING BOTTLES
SLEEPYLAND TEATS
SLEEPYLAND ALL RUBBER SOOTHERS
JAYNOX CHEMISTS SUNDRIES
HOSPITAL EARTHENWARE
JOHN KNOX GRIPE MIXTURE
JOHN KNOX RAPID COLD & FLU MIXTURE

PHERIBAN TONIC TABLETS
DELTAMIN TABLETS
SCYLLA HAIR TONING RINSES
SCYLLA PURE SOAP SHAMPOOS
CLEMMEL COSMETICS
GODFREY'S HAIR PREPARATIONS

ARGOTONE, AERO-PED, C.V.B., DAMASKIN
BEAUTY PREPS. HAIRS ASTHMA PREPS.,
RADIOL, RADIAN, SPHAGNOL PRODUCTS

*Everything for the Chemist*

**JOHN KNOX (Stoke-on-Trent) LTD.**

Jaynox Works, King St., Fenton, Stoke-on-Trent

**Stand Nos. 33 and 34**

· JOHN KNOX · JOHN KNOX · JOHN KNOX · JOHN KNOX · JOHN KNOX · JOHN KNOX · JOHN KNOX · JOHN KNOX

· JOHN KNOX · JOHN KNOX · JOHN KN

**PATTINSON'S MAGNESIA**

GUARANTEED B.P. QUALITY

**Mag. Carb. Levis. Mag. Carb. Pond.**
**Mag. Oxide Levis. Mag. Oxide Pond.**
**Mag. Trisilicate.**
**Mag. Hydrate. Mist. Mag. Hydrox.**

*Supplied through all wholesalers by the sole manufacturers :*

**The WASHINGTON CHEMICAL CO. LTD.**

A MEMBER OF THE
TURNER & NEWALL ORGANISATION.

**WASHINGTON**
**CO. DURHAM**

**London Office:**
Everite House, 59½, Southwark St., S.E.1
**Manchester Office:**
15, Pollard St. East, Manchester, 10

*Potter's*

# *Catarrh Pastilles*

***Reminder :***
***Potter's Asthma Remedy***
RETAIL 2/5
WHOLE-SALE 18/-
Plus tax 6/-
per doz.

***Revised "Budget" Prices***

P.A.T.A.

RETAIL
1/4½ each
WHOLESALE
9/- per doz.
plus tax 3/-

**NOW READILY AVAILABLE**
*from*

## POTTER & CLARKE LTD

**60-64 Artillery Lane, LONDON, E.1.**
*Telephone : BIShopsgate 4761*
**and**
**77 Dantzic Street, MANCHESTER 4.**
*Telephone : BLAckfriars 8734*

# You must be in on this!

Stronger advertising than ever for SevenSeaS this season. A really striking showcard. And window display material — free of charge. Write to-day for showcard and for display material (*stating width and height of display space*). And here's a tip for your assistant. SevenSeaS is much more than vitamins. It's a real energy maker—in these days of fat shortage too! More than that! It gives the special fats known to produce that natural, soft skin, and glossy hair which mean so much to a woman. This is where you can make a friend of your customer.

**SEVENSEAS** PURE COD LIVER OIL

British Cod Liver Oils (Hull & Grimsby) Ltd., St. Andrew's Dock, Hull

# The Stars foretell BRISK BUSINESS!

CROWNER CARDS

NEW OUTERS

NEW SHOW-CARDS

BIG BONUS

NEW PACK

The 'Tabloid' Aspirin bonus gives you ***fourteen*** to the dozen on six-dozen assorted parcels; or ***thirteen*** to the dozen on three-dozen assorted parcels. In addition, to assist your sales, a striking new range of show material is now being issued. Retail prices of 'Tabloid' Aspirin, gr. 5, bottles of 25, 1/- plus 3d. tax; gr. 5, bottles of 100, 2/10d. plus 8½d. tax

# 'Tabloid' BRAND Aspirin

BURROUGHS WELLCOME & CO. *(The Wellcome Foundation Ltd.)* LONDON

# For BACTERIOLOGICAL SUGARS

ARABINOSE · CELLOBIOSE · DEXTRINE (Prep. by precipitation) · DEXTROSE (Cryst. Anhydrous)
DULCITOL · GALACTOSE · INOSITOL · INULIN · LACTOSE · LÆVULOSE · MALTOSE
MANNITOL · RAFFINOSE · RHAMNOSE · SACCHAROSE · SORBITOL · SORBOSE · XYLOSE

THOMAS KERFOOT & CO. LTD. VALE of BARDSLEY, LANCASHIRE

K2

# FERRAEMIA
(BRAND)
# TABLETS

Ferraemia Tablets are perfectly stable; they are chocolate coated, so that there is no possibility of loss from oxidation, and the taste is completely masked. Each batch is carefully tested for rapid disintegration. Ferraemia is economical in use.

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*The*
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*for* RETAILER—WHOLESALER—MANUFACTURER
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# NEWS OF THE WEEK

**Petrie Bursary Competition.** — The nnual competition for the Petrie Trust ursary (value about £16) is to be held in berdeen on October 13. The subjects of xamination are dispensing and pharmacy, nd candidates must be registered students the Pharmaceutical Society who have ndergone or are undergoing training under ticles of pupilage with a pharmacist in e city or county of Aberdeen. Entries ould be sent not later than October 6 to r. John A. Neill, 2 Schoolhill, Aberdeen, om whom full information is available.

**Mansfield Officers.** — At the annual eeting of the Mansfield Branch of the harmaceutical Society held on Septem- r 3, the following officers were elected: *hairman,* Mr. J. Fowle; *Vice-chairman,* r. L. Webber; *Treasurer,* Mr. G. O. mith; *Secretary,* Mr. C. H. Preston Rob- son, Mansfield and District General Hos- tal, Mansfield. The thanks of the meet- g were expressed for the past services of e retiring chairman, treasurer and sec- tary, who had not offered themselves for -election.

**Edinburgh Chemists' Golf.**—The Edinburgh Chemists' Golf Club held an outing at Dalmahoy recently for the P.G. trophy and "4711" prizes. The results were as follows: Best scratch score, Mr. P. McCulloch, 84; No. 1 section: Winners, Messrs. N. Stephen, 85 (2), 83, and D. R. Forgan, 89 (6), 83; runner-up, Mr. R. S. Mathison, 92 (8), 84. No. 2 section: Winner, Mr. W. A. Mackay, 101 (15), 86; runner-up, Mr. J. Liddell, 104 (16), 88.

**World Health Assembly.** — The decision was made at the first World Health Assembly held recently in Geneva (see *C. & D.*, June 26, p. 815) to set up a World Influenza Centre, the first of its kind, at the National Institute for Medical Research, Hampstead, London. Other decisions taken provide for international study of the pharmacology of certain synthetic habit-forming drugs, and for extending certain statutory functions of the Organisation, including biological standardisation, unification of pharmacopœias, and work on the establishment of an international drug nomenclature.

**N.H.S. Appliance Schedules.** — The following specifications and prices for appliances supplied on prescription under the N.H.S. (General Medical and Pharmaceutical Services) Regulations, 1948, are additional to those published last week (see p. 320):—

| Appliance | Size or weight | Basic price, each |
|---|---|---|
| ELASTIC STOCKINGS, KNEECAPS, ANKLETS, or THIGH-PIECES | Basic price payable is (1) where supplied by actual manufacturer, the price agreed upon between the manufacturer and the Executive Council, or (2) where supplied by a person or firm not being the actual manufacturer, a price payable to be notified later. (Chemist (or distributor) should endorse prescription with (a) cost price, where the appliance has been supplied from stock and (b) a statement showing that measurement and fitting have, or have not, been made by himself. Where appliance was not so supplied, invoice should be attached.) | |
| TRUSS .. .. .. .. | (Basic price payable as for elastic appliances.) | |
| Shields: | | |
| Malleable wire type, padded, with tapes. | Adult | 19.5d. |
| | Child's | 13.8d. |
| VAPORISER | | |
| Metal-constructed, heated by night-light. One box of six night-lights to be supplied. | | |
| Lamp .. .. .. | | 68.0d. |
| Night-lights .. .. .. | Box of six | 9.5d. |

# IRISH NEWS

**Ulster Associates.**—At a meeting of the Associates' Committee of the Ulster Chemists' Association on September 2, the following were approved for election as associate members: *Assistants,* Messrs. David R. Anderson, J. N. Doherty, J. S. Kyle and P. McGrath. *Apprentices,* Miss Ellen T. Eastwood and Messrs. William G. S. Coulter, Robert Clark and Thomas Killick. The resignation from the Committee of Mr. A. G. Bryson was accepted with regret.

**Golf Outing at Howth.** — The Irish Chemists' Golfing Society held a successful outing at Howth on September 1 when competitions were held for prizes presented by Macleans, Ltd., and Bourjois, Ltd. The result of the 18-hole strokes competition was as follows: 1, D. Bridgeman (15), 65; 2, J. Smyth (11), 69; 3, F. J. Roche (6), 72; 4, D. Gillen (15), 72. In a bogey competition the winners were: 1, M. Costello (10), 2 up; 2, J. Draffin (7), all square; 3, P. McAuliffe (10), all square. On the motion of Mr. D. Bridgeman, seconded by Mr. J. Smyth, a vote of thanks to the donors of prizes was passed.

# OVERSEAS NEWS

**State Production of Garlic.**—The Sta of Sao Paulo, Brazil, has commenced pr ducing garlic for medicinal use as t domestic production of the plant for th purpose has proved insufficient.

**Streptomycin Production in France.**— The production of streptomycin in Fran is being increased so that, it is hoped, ou put will by 1949 meet all the most urge needs of the country.

**Brazil's Carnauba Wax Exports.**—Du ing the first four months of 1948, Braz exported 650 tons of carnauba wax le than in the same period of 1947. Th decline was accompanied by a drop in t average export value from an average Cr. 57,292 per ton to Cr. 32,344 this yea

**Australian Botanical Expedition.** — A officially sponsored party of botanists whic for the past four years has been explorir the continent of Australia for drug plan of known utility or deemed likely to pr vide useful substances, has sent south f laboratory examination, from the tropic north of Queensland, thirty plants colle ted in that territory.

**Cosmetics from Sea Elephant Oil.** — Cosmetics made with products obtaine from sea elephants may soon be a exclusive fashion for Australian wome Experiments to see if sea elephant oil suitable for cosmetics and edible purpos have been proceeding in the laboratory the Australian Department of Supply an Development in Melbourne.

**Poliomyelitis Research in U.S.**—R search carried out at Columbia Universit suggests that a new drug phenosulphazol cures poliomyelitis in mice in the earl stages of the disease. Cured mice were sub sequently immune from re-infection. A singl oral dose prevented infection. A parallel ex periment has been started using the dru on patients in American hospitals.

**Cinchona Production in Java.** — Cir chona plantations in west Java are gradu ally being rehabilitated. Of forty-five cir chona extraction centres, twenty-three ar now operable, eleven can be repaired with in a short time, while eleven will requir a longer period for reconditioning. Two c the five plantations in east Java are ex pected to yield 200 metric tons of bark i 1948 from 655 acres. The idea of co operative processing of produce and th combination of smaller holdings is gainin in popularity.

# IMPROVED DISTRIBUTION OF STREPTOMYCIN

The Ministry of Health announces that arrangements for the distribution of streptomycin on a regional basis have recently been completed, and that the necessary scientific control has been made available in some eighty hospitals throughout the country for patients requiring streptomycin treatment. The drug will still be available for the treatment of acute miliary, meningeal, ulcerative tracheobronchitis and laryngitis forms of tuberculous infection in any hospital, but in special cases applications for it should now be made to one of the new regional distribution centres, instead of as formerly to the Ministry of Health. A list of the distribution centres is given below:—

Birmingham Region:
Selly Oak Hospital, Birmingham (Dr. R. P. S. Kelman, medical superintendent).

East Anglian Region:
Addenbrooke's Hospital, Cambridge (Mr. S. J. Hopkins, Ph.C., chief pharmacist).

Leeds Region:
Leeds Blood Transfusion Laboratory, Seacroft, Leeds (Dr. T. S. Marshall).

Liverpool Region:
Fazakerley Sanatorium, Liverpool, 9 (Dr. O. F. Thomas, medical superintendent).

Manchester Region:
Manchester Royal Infirmary (Mr. J. B. Lloyd, M.P.S., chief pharmacist).

Metropolitan (North-east) Region:
Mile End Hospital, Bancroft Road, London, E.1 (Dr. Sears).

Metropolitan (North-west) Region:
West Middlesex Hospital, Twickenham Road, Isleworth, Middlesex (Miss E. M. Bristowe, Ph.C.).

Metropolitan (South-east) Region:
Grove Park Hospital, Lee, London, S.E.12 (Dr. M. H. Logg).

Metropolitan (South-west) Region:
South London Blood Supply Depôt, Benhill Avenue, Sutton, Surrey (Dr. E. G. Murphy).

Newcastle Region:
1. Newcastle General Hospital (Mr. W. T. Wing, Ph.C., chief pharmacist).
2. Newcastle Royal Victoria Infirmary (the chief pharmacist).
3. Pathological Laboratory, Cumberland Infirmary, Carlisle (Dr. Faulds).

Oxford Region:
Churchill Hospital, Oxford (Mr. W. Trillwood, Ph.C., chief pharmacist).

Sheffield Region:
City Hospital, Hucknall Road, Nottingham (Dr. W. Morton).

South-western Region:
Ham Green Hospital and Sanatorium, Bristol (Dr. J. Macrae).

Wales Region:
Cardiff City Isolation Hospital, Cardiff (Dr. Emrys Harries).

In view of recent and proposed extensions of the use of streptomycin in tuberculosis in Britain, the Ministry stresses the desirability of all who are likely to use the drug being aware of its dangers and limitations. Of the drug's potential dangers the production of resistant strains, the Ministry states, is the worst.

# COMPANY NEWS

Dabitoff Co., Ltd. (P.C.).—Capital £1,000. To carry on the business of chemical manufacturers, druggists, etc. The first directors are to be appointed by the subscribers. R.O.: 12 Devonshire Row, Bishopsgate, London, E.C.2.

---

Boots Pure Drug Co., Ltd.—An interim ordinary dividend is announced of 10 per cent., less tax, for the half-year ending September 30.

Beecham Group, Ltd.—The first interim dividend on deferred shares for the year ending March 31, 1949, is maintained at 8½ per cent.

# BUSINESS CHANGES

Mr. Alan Slater, M.P.S., has acquired the business at 110 Padiham Road, Burnley, formerly carried on by Mr. Reuben Hudson, M.P.S.

Mr. Reuben Hudson, M.P.S., has acquired the business at 76 High Street, Wickham Market, nr. Woodbridge, Suffolk, formerly carried on by Mr. D. A. Covell.

Mr. O. R. Rowlands, M.P.S., has acquired the Post Office Pharmacy, Llanerchymedd, Anglesey, formerly carried on by Mr. Llewellyn W. Jones, M.P.S.

Mr. N. A. Herdman, M.P.S. (formerly of May & Baker, Ltd., Dagenham) has joined the staff of the Distillers Company (Biochemicals), Ltd., Speke, Liverpool.

Robert Blackie, Ltd., wholesale and manufacturing chemists, are removing on October 1 to Pomeroy Street, London, S.E.14 (Telephone: New Cross 1122). The company state that some interruption of deliveries is inevitable during the removal process.

Thomas Kerfoot & Co., Ltd., Bardsley Vale, have made the following appointments to their representative staff as from October 1: Northern Ireland, Mr. W. A. Lilley, M.P.S., 37 Downshire Road, Belfast; West London and adjacent Home Counties, Mr. Ralph Webb, M.P.S., Langdale, Lankers Drive, North Harrow, Middlesex.

Monsanto Chemicals, Ltd., now have the following addresses:—8 Waterloo Place, London, S.W.1 (Telephone: Whitehall 2913) (registered offices, board of directors, secretarial and legal, departments and industrial and public relations departments); Victoria Station House, Victoria Street, London, S.W.1 (Telephone: Victoria 2255) (all sales departments except export, and Monsanto International); Allington House, Allington Street, London, S.W.1 (Telephone: Victoria 2416) (export sales department); 13 Maddox Street, London, S.W. 1 (Telephone: Ambassador 3201) (central engineering department); and 37 Park Street, London, W.1 (Telephone: Regent 7321) (accounting and purchasing departments).

## BIRTHS

McMaster. — At Hyndland Nursing Home, Glasgow, on September 2, Janet, the wife of James Low McMaster, M.P.S., D.Opt., 35 Falkland Street, Glasgow, of a son.

O'Sullivan.—Recently, the wife of Mr. T. B. O'Sullivan, M.C.P.S.I., Parnell Street, Dublin, of a son.

## DEATHS

Benson.—At his home, 27 Furness Park Road, Barrow-in-Furness, on August 28, Mr. John Benson, M.P.S., aged seventy-one. Mr. Benson had been in business as a chemist in Dalton Road, Barrow-in-Furness, for forty-eight years, and was a prominent member of Furness and Barrow golf clubs. He is survived by his widow, three sons and a daughter.

Clough.—On September 4, following a major operation, Mr. Henry Clough (chairman of directors, Milton Antiseptic, Ltd.), aged eighty-five. Mr. Clough had been chairman of the company for twenty-three years, and was also chairman of the several associated companies in the Milton group.

Course.—At the Dilke Hospital, Forest of Dean, on August 23, Mr. Arthur Hattatt Course, M.P.S., Mitcheldean, Glos, aged sixty-five. Mr. Course served his pharmaceutical apprenticeship with Mr. E. Saville Peck, Cambridge. He qualified in 1903 and was for a short time with Clay & Abraham, Ltd., Liverpool. After a further period with Mr. Peck as assistant, he became in 1920 chief assistant to Mr. Gibson, Wolverhampton. In 1932, in partnership with his wife, who survives him, he took over a business in Mitcheldean. He was active in business until shortly before his death.

Irvine.—At an infirmary in Glasgow on August 30, Mr. Malcolm Irvine, Ph.C., Rockfield, 133 Urrdale Road, Dumbreck, Glasgow. Mr. Irvine qualified in 1909 and passed the Pharmaceutical Chemist examination the following year.

## WILLS

Mr. H. Bridges, M.P.S., 303 Dereham Ro Norwich, left £213.

Mr. J. A. Patton, M.P.S.N.I., 315 Ant Road, Belfast, left £5,306.

Mr. T. Lewis, M.P.S., 1 Pentrepoeth Ro Morriston, Swansea, Glam, left £4,683.

Mr. G. F. L. Fisher, M.P.S., 18 Fore Stre Topsham, Devon, left £9,954 (£9,536 net).

Mr. C. Ingham, M.P.S., 193 Casterton Aven Burnley, Lancs, left £3,244 (£2,945 net).

Mr. H. R. Jackson, Ph.C., The Avenue Ho Harrogate, Yorks, left £10,990 (£10,524 net).

Mr. D. Lewis, M.P.S., Penelton, Llanrhyst Cardigans, left £33,563 £33,471 net).

Miss C. M. Evans, M.P.S., 26 North Cr cent, St. Annes-on-Sea, Lancs, left £3, (£3,109 net).

Mr. J. T. Moore, M.P.S., Brinkhill, and Hi Street, Walsingham, Norfolk, left £2,676 (£2, net).

Mr. F. S. Rose, M.P.S., 88 Addiscombe Ro and 110 George Street, Croydon, Surrey, l £13,832 (£13,168 net).

Mr. F. Flood, M.P.S., 64 Chaucer Road, B ford, a director of Taylor, Brawn & Flood, Lt High Street, Bedford, left £28,077 (£27,966 ne

Mr. L. J. Leeson, M.P.S., 64 Horringer Ro formerly of 31 Abbey Gate Street, Bury St. E munds, Suffolk, left £2,193 (£2,088 net).

Mr. W. Ashworth, M.P.S., 10 Marlborou Road, Waterloo, Liverpool, left £18,716 (£18,4 net).

Mr. S. C. Thompson, Ph.C., Claisdale, Ca bridge Road, Ely, Cambs, left £10,771 (£10,6 net).

Mr. H. Woodhead, M.P.S., 23 Church Stre Eccles, Lancs, a director of H. Woodhead, Lt left £8,979 (£8,744 net).

Mr. T. F. March, M.P.S., Grisedale, Brid Road, Torquay, Devon, left £21,240 (£20,8 net).

Mr. G. D. Cooper, M.P.S., 5 St. Marys Roa Wimbledon, London, S.W.19, left £5,581 (£4,2 net).

Mr. R. C. Keay, M.P.S., 1 Jesmond Avenu and 51 Dalton Road, Barrow-in-Furness, Lanc left £8,650 (£8,203 net).

Mr. C. Button, M.P.S., Gazeley, Colwall, an Bank Chambers, Colwall, Hereford, left £7 (£592 net).

Mr. R. N. Parkin, M.P.S., 1 North Roa Central Buildings, Ambleside, formerly manager Boots, Ltd., Ambleside, Westmorland, left £1,7 (£1,693 net).

Mr. H. C. Spreckley, M.P.S., 6 Holcomb Avenue, King's Lynn, Norfolk, a director of Me calf & Spreckley, Ltd., 5 Norfolk Street, King Lynn, left £5,988 (£5,699 net).

Mr. C. J. Henshaw, retired pharmacist, 24 Oldham Road, Ashton-under-Lyne, Lancs, for merly with Thomas Kerfoot & Co., Ltd., Bards ley Vale, left £3,661 (£3,621 net).

# TOPICAL REFLECTIONS

## Conference Chairman's Address

The contributions of Dr. Norman Evers to the Science Section of the British Pharmaceutical Conference during the past thirty years or so made it certain that when he became chairman of the Conference he would deliver an important address. This happy event has now taken place (pp. 309-13), the only matter for surprise being that the Conference has had to wait so many years for it. Dr. Evers's estimate of the average length of previous chairmen's addresses is new, I think, and will be a help to his successors, whether they act on it or not. But it is not by length that an address on such an occasion is judged. A fundamental idea underlying the chairman's emphasis on the significance of physical chemistry in pharmacy is that we are not near the end but near the beginning of various lines of approach to problems in which pharmacists collaborate with prescribers. An obvious example is the class of phenomena grouped under the term rheology. We have it on the authority of Dr. Evers that new ointment bases have "not had the effect of diminishing the amount of research necessary when a new ointment or cream is formulated:" he added that the opposite is the case. This forward-looking spirit cannot fail to stimulate thoughtful readers to tackle problems suggesting themselves in the course of daily work at the dispensing counter. The proposal of the Conference Executive that a Research Committee of the Pharmaceutical Society should sponsor certain investigations will, it may be hoped, be accepted.

## Interrelation of Sciences

In reading this address one's thoughts return, as often happens in such circumstances, to the old question of the relationship between sciences. Chemistry is intimately linked with physics, physics with mathematics. The chairman of the Conference makes the point that a greater interest of students in physical chemistry needs to be fostered by teachers. I should have thought that, having passed the Intermediate examination of the Pharmaceutical Society (soon to include mathematics), students would have been more attracted to physical chemistry and inorganic chemistry than to organic chemistry. Apparently this does not happen. The explanation lies, presumably, partly in a widespread dislike of mathematics and partly in an imperfect realisation of the part played by physical chemistry in pharmaceutical operations. The chairman paid tributes to recent workers in fields belonging to the general subject—to Dr. Scott Blair, Mr. A. G. Fishburn and Mr. A. W. Bull. On his own considerable work in the analytical world he was silent except for a modicum of illustration. Without attempting a detailed discussion of this address, I suggest that all who respect pharmacy and the sciences contributory to it read it carefully, if they have not already done so. There is no doubt that a knowledge of physical chemistry will be vital to the pharmaceutical worker of the future.

## Early Experiments

When we look back to the early years of the Royal Society, we can fairly say that some progress in science has been made. That Society dealt a fatal blow to credulous notions lacking an experimental basis; yet some of the experiments of its first members were crude, even if sound in method. Emulsions supply a typical instance. In 1674 Nehemiah Grew, M.D. (best remembered, perhaps, as the patentee of a salt obtained from Epsom waters) contributed to the Society's proceedings a discourse "concerning the Nature, Causes and Power of Mixture." The contents of this monograph indicate that Grew's main interest was chemical combination. He made a tentative approach to a scientific process (or more than one) for emulsions by trying various combinations of oils, resins and gums with "any winy or watery Liquor." Using yolk of egg as the emulsifier for blending what he called "essential Oyls" with "any unoyly Liquor," he directed the digestion of "any of the said Oyls with about an equal quantity of the Yelk of an Egg, with a very soft heat, like that of the Meridian Sun in Summer, continued for the space of three Weeks or a Month; and in the mean time, to be now and then stirred a little together." These simple experiments were bettered by Barton, a Dublin apothecary, in 1745-47, and by James Bogle French, a London apothecary, in 1757. French's results were published by a well-known physician, John Fothergill, F.R.S. These trials led the way to a better understanding of the factors involved in making stable emulsions, and eventually to the manufacturing processes of today. ***Xrayser***

# TRADE NOTES

**Weatherproofing for Labels.** — Croda, Ltd., Goole, Yorks, are the manufacturers of Spec-o-tec, a preparation for applying to labels to render them weatherproof in ordinary use.

**Medical Books.**—A new 50-page catalogue of books on medicine and allied subjects has been issued by H. K. Lewis & Co., Ltd., 136 Gower Street, W.C.1.

**Nationally Advertised.**—The old-established remedy, Nurse Harvey's mixture, is being publicised in national and women's newspapers. The makers are O. Scruton & Co., Ltd., York.

**Widely Advertised.**—Deodor-X Co. of England, Ltd., Ellesmere Port, Ches, illustrate in this issue one of the announcements which are appearing in the national Press, supported by a poster campaign.

**In New Plastic Container.** — E. Griffiths Hughes, Ltd., Adelphi, Manchester, 3, are the manufacturers of Tri-busol antiseptic foot powder, which is now being issued in a new type of plastic container.

**In Good Supply.**—The Dunlop Rubber Co., Ltd., Dunlopillo division, Rice Lane, Walton, Liverpool, 9, announce that fair supplies of Dunlopillo latex foam ring cushions are again available.

**Courses in Dentistry.** — On another page is an announcement by the Royal Dental Hospital of London giving details of courses in dentistry offered at the school of dental surgery attached to the Hospital.

**Price Reduced.**—Details of a new reduced tax-inclusive price per carton of Novopine bath salts, manufactured by Astropine, Ltd., Watts Grove, Bromley-by-Bow, London, E.3, are given on another page of this issue.

**Bandage and Plaster Differentiated.**—A comparison of the differing features of Elastoplast bandages and Elastoplast plasters is given in this issue by the manufacturers, T. J. Smith & Nephew, Ltd., Neptune Street, Hull.

**Booklet for Rheumatic Patients.**—Described as "an authoritative treatise on rheumatic complaints written in a language understandable to the layman," a new booklet, "Rheumatic Disorders," has been issued by Stephen Matthews & Co., Ltd., 19 Farringdon Street, London, E.C.4, the manufacturers of Curicones for rheumatism treatment.

**Electric Massager.** — Provincial Incandescent Fittings Co., Ltd., Pifco House, Watling Street, Manchester, 4, have introduced a Pifco electric massager for A.C. mains. Supplies of an illustrated brochure, together with a copy of an instruction booklet that is enclosed with each massager, are available to retailers taking up the sale of the product.

**Index of Specialities.** — The "Sandoz Index, 1948," a fifty-page booklet issued by Sandoz Products, Ltd., 134 Wigmore Street, London, W.1, includes short descriptions of the company's pharmaceutical specialities, their indications, and general and special dosages, supplemented by a table of approximate equivalents of metric and apothecaries' weights and measures and a therapeutic index.

**Improved Louping-ill Vaccine.** — Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce the addition to their veterinary list of Wellcome brand improved louping-ill vaccine. The new vaccine contains few tissue particles, is easily injected and gives a good protection in doses of only 2 c.c. The vaccine may also be used to protect cattle. The material, available for autumn use, is issued in bottles of 50-c.c.

**Medical Propaganda.**—A specimen advertisement for Menovo tablets (for the relief of uterine spasms) is reproduced on another page of this issue in an announcement by the medical department of Clinical Products, Ltd., Richmond, Surrey. The distributors for England and Wales are S. Maw, Son & Sons, Ltd., Aldersgate House, New Barnet, Herts, and for Scotland Moore Medicinal Products, Ltd., 1 Queens Terrace, Aberdeen.

**Bonus Offers.** — Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1 put on record that over 20,000 women responded in the first four days to an offer of a free sample of Tina shampoo, and requests continue to come in. As a result advertisements featuring the offer were cancelled, and a new series, "Teenage appeal," commenced in advance of the previous time-table. Bonus offer to the trade is extended to September 30. — Simmonds Products, Ltd., Great West Road, Brentford, Middlesex, offer a special bonus during September of 8½ per cent. on the company's products, Octim, Sposs furniture and floor dressing, Window Sheen and Fenloss spot-remover.

**Universal Safelight.**—A new design of universal safelight lamp, constructed of sheet steel, and finished in cream enamel, will shortly be available from Kodak, Ltd.,

Kingsway, London, W.C.2. The main feature is an 8 in. x 10 in. safelight for direct illumination, with a 10 in. x 12 in. safelight for indirect illumination from ceiling or reflector; the two may be used simultaneously or either replaced by an opaque screen. Other Kodak introductions are a quick-finish 35-mm. film and chemicals that enable a wet-positive print to be produced within one minute of exposing the negative; a modern pattern portable illuminant, the Kodatron speedlamp, permitting exposures on daylight-type colour films without correction filters.

## Proprietary Articles Trade Association

THE Protected List and Year Book (1948-49) of the Proprietary Articles Trade Association has just been published. In the list are shown the current trade and retail prices (tax-inclusive where purchase tax is chargeable) of the proprietary articles of the 400 manufacturer members of the Association, the present purchase-tax rate being indicated against the name of each article. The list is divided into Part 1 (medicinal and surgical), and Part 2 (toilet, perfumery, food and "other articles"), and Part 2 is printed on tinted paper. An eight-page supplement, giving all additions to the P.A.T.A. to September 1, is also included. Members requiring additional (unbound) copies of the list may obtain them, while the limited stock lasts, at 1s. per copy.

**Alterations to Protected List (Part 1).** — *The British Drug Houses, Ltd.*, Lysol, B.D.H., 4-oz., 7s. doz., 1s.; 8-oz., 12s. doz., 1s. 9d. (exempt from tax).

*Hommel's Hæmatogen & Drug Co.*, Trisan, now exempt from tax, 45s. doz., 5s.

*Wigglesworth, Ltd.*, Gould's liver salts, 14s. 3d. doz. (one doz. 12s. 9d. doz.), tax 33⅓ per cent., inclusive retail price 2s.

**Alterations to List (Part 2).**—*Addis, Ltd.*, Quantity discounts to retailers, September 14. Orders for less than one gross invoiced at standard wholesale prices: Wisdom, "extra," 12s. 6d. doz.; normal, 9s. 7d. doz.; junior, 7s. 11d. doz.; baby's, 6s. 3d. doz. All orders for one gross and over (in which any Wisdom line may be included): Wisdom "extra," 12s. 2d. doz.; normal, 9s. 4d. doz.; junior, 7s. 9d. doz.; baby's, 6s. 1d. doz.; five gross and over (including any Wisdom lines): Wisdom "extra," 11s. 7d. doz.; normal, 8s. 10d. doz.; junior, 7s. 4d. doz.; baby's, 5s. 11d. doz. In each case proposal applies to Wisdom tooth-brushes only, but total order may be assorted from any Wisdom line at customer's option.

*Kemill & Co.*, Sheer-as-Nylon leg make-up, 2-oz., 6s. 6d. doz., tax 100 per cent., i.r.p. 1s. 4d.; 4-oz., 9s. 8d. doz., tax 100 per cent., i.r.p. 2s.

## *C. & D.* Cartoon for Auction

The artist's original drawing, 23 in. x 30 in. (mounted on card), of the caricatures reproduced on pp. 342-43 of this issue is for sale to the highest bidder. The proceeds will be donated to the Benevolent Fund of the Pharmaceutical Society. Bids (without remittances) should be addressed to the Editor and should reach these offices not later than September 20.

## *C. & D.* DISPENSING PRICE LIST

THE following changes that took place during August should be noted:—

| Cost | *Due allowance has been made for purchase tax if applicable* | Dispensing price | | | | | |
|---|---|---|---|---|---|---|---|
| | | 4 oz. | | 1 oz. | | 1 dr. | |
| *d. per* | | *s.* | *d.* | *s.* | *d.* | *s.* | *d.* |
| 38 lb. | Aloe Capensis pulv. .. | 1 | 5 | 0 | 5 | 0 | 1 |
| 50 oz. | Caffeina .. | — | | 7 | 4 | 1 | 1 |
| 30 oz. | Caffeina et sodii benzoas | — | | 4 | 4 | 0 | 8 |
| 42 oz. | Caffeina et sodii iodid. | — | | 6 | 4 | 0 | 11 |
| 30 oz. | Caffeina et sodii salicylas | — | | 4 | 4 | 0 | 8 |
| 30 oz. | Caffeinæ citras | — | | 4 | 4 | 0 | 8 |
| 78 lb. | Calcii et sodii lactas .. | 2 | 10 | 0 | 9 | 0 | 1½ |
| 51 lb. | Collod. acetonum B.P.C... | 1 | 10 | 0 | 6 | 0 | 1 |
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| 36 oz. | Ferri et quinin. citras .. | — | | 5 | 3 | 0 | 9 |
| 18 lb. | Ferri sulphas exsicc. .. | 0 | 9 | 0 | 2½ | — | |
| 26 oz. | Ol. pini sylvestris .. | — | | 3 | 9 | 0 | 7 |
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British Pharmaceutical Conference

BRIGHTON 1948

*SYMPOSIUM SESSION*

# PRESERVATIVES IN PHARMACY

OPENING the session with a paper on "Preservatives in Solutions for Parenteral Use," DR. H. DAVIS, London, said he was dealing with only one aspect of the use of preservatives. In parenteral solutions such compounds were added either to maintain sterility or to preserve activity. He would confine himself to bacteriostatic compounds added for preventing the growth of organisms in multi-dose containers. The first official preparation containing a preservative was the hypodermic injection of ergotin in the B.P., 1885, in which camphor water was introduced, probably as a result of the observation of fungal growths. In the B.P., 1898, phenol, 1.5 per cent., replaced camphor water, and 0.15 per cent. of salicylic acid was included in injection of cocaine. In 1914 the concentration of phenol was reduced from 1.5 to 1 per cent. In 1932 there was a change to 0.5 per cent. Phenol was still the yardstick, and there was a general instruction to include an antiseptic equivalent to phenol, 0.5 per cent.

### Progress After 1932

From 1932 onwards considerable progress had been made, and the 1948 B.P. included a list of suitable bacteriostats, among them phenol, 0.5 per cent.; cresol, 0.3 per cent.; chlorbutol, 0.5 per cent., esters of *p*-hydroxybenzoic acid and phenyl mercuric nitrate, 0.001 per cent.

The ideal method of maintaining sterility in parenteral solutions was to put them in heat-sterilised ampoules or other well-sealed single-dose containers. Multi-dose containers were popular, however, and there was little danger of accidental contamination if they were used intelligently. With thermolabile substances the contents should be limited to small-dose injections.

Preservatives were never allowed in intrathecal injections, but he wondered whether this was because the provision of suitable preservatives had never been investigated, or because all concerned were convinced that in no circumstance should any preservative be used in intrathecal injections. He was convinced that suitable substances could be introduced, and thought the problem should be examined, in order to widen the margin of safety, fo in accidental deaths from intrathecals th infection had usually proved fatal.

### Choice of Preservative

In considering what preservative shoul be used in parenteral compounds it wa necessary to study the compatibility o the bacteriostat with the drug, its solub lity and bacterial activity in the solven and its toxicity. The ideal was a com pound that was neutral, soluble, powerfu and non-toxic. In practice no such bac teriostat existed, and it was necessary t seek a compromise, choosing the least toxi and adopting the principle that the bac teriostat should not interfere with thera peutic activity or cause turbidity. No ne preservative of note had appeared in re cent years, and the earliest bacteriostat phenol and cresol, remained, in some pre parations, the preservatives of choice. Dr Davis next discussed the relative merits o various preservatives in turn.

PHENOLS.—Against non-sporing orga nisms 0.5 per cent. phenol had approxi mately the same activity as 0.3 per cent cresol. They were therefore preferable t chlorocresol, which caused turbidity wit some salts.

HALOGENATED PHENOLS.—The toxicit of chlorocresol, which had been recommen ded in 1935 for the injection of morphine had been examined by Wien, who foun that, w/w, it was of the same order o toxicity, with ten times its bactericidal acti vity against *Staphylococcus aureus*. Chloro xylenol had twice the potency of chloro cresol but was much less soluble in water Several incompatibilities (e.g., with codein phosphate, papaveretum and penicillin) ha been reported.

MERCURIALS.—Phenyl mercuric nitrat and phenyl mercuric acetate were power ful bacteriostats and compatible with eithe acid or alkaline media, but not powerfu bactericides. Some preferred the acetate a being more soluble, the solubility of th nitrate being found to vary with the ag of the sample.

CHLORBUTOL.—In 0.5 per cent. solution this compound was slightly more bacteri cidal than phenol against *S. aureus*, and

was, moreover, comparatively non-reactive.

ESTERS OF *p*-HYDROXYBENZOIC ACID.—Dr. Davis said he had never confirmed from his own experience the bactericidal activity of these compounds, but they were useful fungistats.

After brief mention of other compounds used to maintain activity in particular preparations Dr. Davis concluded by saying that little was known about the use of bactericides in oily injections, and appealing for research on the problem.

### Manufacturing Aspects

A further paper, on "Preservatives and the Manufacturer," was read by MR. A. G. FISHBURN, who said there were two directions of approach to the problem. The complete manufacturing process from raw materials to finished packed article could be studied and as far as possible all factors which might induce decomposition eliminated; or a chemical agent could be used in an attempt to counteract the effect of the organism or substance responsible for deterioration. The modern tendency was to use preservatives only where decomposition could not be entirely eliminated by specialised technique or by high quality standards. Preservatives were used chiefly (a) when it was impracticable or uneconomic to eliminate all interfering substances; (b) when the pure preparation was inherently unstable; or (c) when there were special conditions under which the product would eventually be used. The majority of the manufacturer's stabilisation problems resulted from the need for manipulating large bulk, the maintenance of stock solutions, etc., for considerable periods, and the need to ensure that the finished product would resist extremes of heat, moisture, etc., for several years after it left the manufacturer's warehouse. In processes which were straightforward on the dispensing scale, numerous contamination risks were introduced when the process was adapted to a manufacturing scale.

The prime causes of deterioration were (1) The atmosphere (oxygen, carbon dioxide, water, dust particles, bacteria, fungi and insects); (2) heat and light; (3) internal reactions due to inherent stability, excipients, or the action of containers. In the intermediate phase of manufacture the commonest problems were connected with bacterial or fungal infection of biological products. While precautions could be taken to reduce such hazards (e.g., by air filtration, special plant, etc.), there were many instances when a preservative must be used. Volatile preservatives such as chloroform and xylene were preferable since they could be subsequently volatilised (e.g., xylene was useful to prevent putrefaction of liver mass during autolysis). Most preservative problems occurred in the finishing stage. Much could be done by cleanliness, etc., and by the selection of a suitable container, but many single substances (e.g., ether, chloroform and trichlorethylene) required stabilisers. A wide variety of compounds were used as preservatives. The hydroxy compounds, including phenols, naphthols and glycols, were bactericides, fungicides and sometimes antioxidants. Most commonly used were phenol, cresol, chlorocresol, Phenoxetol, betanaphthol and propylene glycol as preservatives, and pyrogallol, *p*-hydroxydiphenyl, *p*-hydroxydiphenylmethane, catechol and thymol as antioxidants. The parahydroxy benzoic acid esters were used extensively as stabilisers and a synergistic effect had been observed in various combinations of esters.

Many stabilisers had a highly specialised action and at present had been investigated only for a limited number of products, e.g., thiourea for ascorbic acid, camphor sulphonic acid for calcium gluconate, etc. The selection of a preservative might involve considerable chemical and biological research.

Methods must be devised for estimating the preservative and ensuring that it did not introduce incompatibility. Preservatives enabled the manufacturer to carry out processes which would otherwise require extreme conditions in plant and manipulation, and they permitted the presentation of materials in forms which would otherwise be inherently unstable. A preservative in a packed article was a useful insurance against bad climatic conditions or other hazards.

### Simplicity the Keynote

The ideal manufacturing recipe, however, was a simple one; every added ingredient introduced an extra complication in the form of additional analysis, incompatibility hazard, storage tests, etc. For every new product a balance must be struck between limitation of plant and labour, and the research effort involved in selecting a satisfactory preservative. The trend was towards considering preservatives as an unavoidable second line of defence.

(*To be concluded*)

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VOL. CL. SEPTEMBER 11, 1948 No. 3577

## Ex Cathedra

In considering the various contributions made to the discussions at the meeting of Branch Representatives of the Pharmaceutical Society held as part of the British Pharmaceutical Conference at Brighton last week, it should be borne in mind that the character of the meeting was different in an essential characteristic from its predecessor held in London in May. Mr. Linstead, as secretary of the Society and chief (indeed, only) spokesman of the Council, summed up the difference in the single illuminating word "leap-frogging." What was on the agenda in May was put there by branches, and any uncompleted issues carry forward until next May. September 2 was the Council's occasion, when it brought forward two reports embodying its own views and invited the branches to ratify them, while making it quite clear from the chair that the Council retains full liberty of action. It might be thought that, in the circumstances, any discussion was entirely academic, and certainly there was some letting-off of steam that will never find its way into the driving mechanism of the pharmaceutical Ship of State. Nevertheless, while the Council is constitutionally at liberty to disregard the whole of the proceedings, in practice it will take a good deal of notice of any arguments put forward that obviously had the backing of a majority of members, and from its own point of view it has effected a considerable gain by securing the general approval of the meeting (tacit if not expressed numerically) for the substance of its two reports.

There were many who came to attack and remained to ratify and for this result the persuasive eloquence of Mr. Linstead was almost entirely responsible. The secretary had all the answers off pat, and could hardly have dealt more effectively with critics if he had known beforehand what they were going to say and prepared his rejoinders in advance.

Criticism centred, so far as the proposed revision of the constitution is concerned, around a few issues. The precise place and function of the Branch Representatives' meeting itself was a bone of contention. Could it lay down the law or was it a mere talking shop? The "extent and powers" of the meeting have apparently not yet crystallised. They are at present "experimental" and no doubt are expected, like the British constitution, to "broaden down from precedent to precedent." The revision proposals, as presented, would merely give it "formal recognition." Still, the main value of the meeting must surely be indirect. Members elect a Council to transact the Society's business, and will not surrender their voting rights to delegates. They must form their own views and vote accordingly. Where the Branch Representatives' meeting is — or should be—invaluable, is in providing the only medium for a direct exchange of opinions between members, who may have very clear ideas of what they want, and a Council that has, perhaps, inside knowledge of some factor that prevents those ideas being carried out. We take the view that, if that exchange is to be made fully effective, the time will come when members will expect the policies put forward by the Council to be expounded by those who, as chairmen of committees, have been responsible for carrying them through. This will give voters both the confidence that they are taking enlightened decisions as democratic electors should, and the confidence that the people they send back to carry out policies have the necessary skill and personality to do so. Conversely, the meeting will serve to train speakers who may eventually take their place at the Council table.

Dilution of the register was easily shown to be a remote risk, but dilution of the Council with further co-opted members appointed by the Privy Council (from names of pharmacists submitted by the Council) was more difficult to accept. Mr. Linstead again, as at Torquay, went at length into his largely hypothetical arguments about increasing State control under whatever political party and the need for forestalling complete immersion of the Society in the Civil Service. We say hypothetical because, if valid, they would apply as readily to a Council with 21/27 elected members as to one containing 21/21. However, no member felt so strongly on the subject as to raise further objection after the secretary had spoken.

The report on the Council's attitude towards the National Health Service has, like Appendix A, little chance of any immediate practical outcome. It may be true, as Mr. Linstead claimed, that the Society had far more to do with the status pharmacists have secured under the National Health Service than it is given credit for, but it is now a matter of history that it was manœuvred out of any direct responsibility for N.H.S. The green appendix is an attempt to provide sound reasons why the Society should again be taken into consultation, but they are of the "pious" kind, since on all of them more effective action can be taken by other bodies. The secretary himself admitted this—unintentionally, no doubt—when he said that "the centre" could now do no more than, perhaps, send a circular to Health Committees. For the rest, pharmacists must, like the Pied Piper of Hamelin, plead their own case locally at the Town Hall. It is to be hoped they meet with a better response, for they have not that hero's remedy.

## A Pooling of Experience

THE Symposium Session, the third to be held by the Conference, proved again most popular and successful. The subject —the preservation of medicinal substances —was provocative. It was one on which much work has been done, and it was particularly suitable for consideration by a mixed assembly of specialists and "general practitioners" in pharmacy. Salient points emerging from the discussion included the urgent need for defining such terms as bacteriostat, bactericide, stabiliser, etc.; the wisdom of avoiding problems of deterioration by adequate planning beforehand rather than trying to remedy them afterwards; and the desirability—particularly from the manufacturer's point of view—of simple formulas. For exporters to tropical countries a further consideration is the need to know local medical customs and methods of using the products sent out. Only one speaker urged that labels on injection solutions should state the bactericide used. The importance of correct packaging methods as a factor in preserving medical substances was emphasised by many speakers, and one contributor suggested standard storage tests for packages, so that pharmacists in the tropics, for example, might be able to assess more accurately the state in which preparations purchased in Britain would be received.

The speakers, moving to the microphone in a constant stream, showed generally an understanding of symposium technique, but there might with advantage have been more younger speakers in the stream, and more representatives of the retail side of the craft. New physicochemical methods of sterilisation were dismissed as not entirely satisfactory, but curiously the possibilities of one such method—sterilisation by supersonic waves—which has been investigated in America, was not mentioned. It is possible that future symposium sessions could be held to deal with the preservation of special classes of medicament.

## Repeats for N.H.S. Prescriptions?

A CORRESPONDENT in a recent issue of the "British Medical Journal" calls for the use of "repeat" prescriptions in the National Health Service—a suggestion which, so far as it shows advantages to patients and others, demands serious consideration. To show the particular advantages in practice of repeat N.H.S. prescriptions the correspondent cites the prescribing of cough mixtures, for more people go to doctors, he states, because of coughs than for any other complaint. Most of these patients, he finds, consume about a pint of medicine before recovering, though some require considerably less. If the quantity of medicine prescribed at first

is 8 oz. a patient may have to go to the doctor three times to obtain the total quantity of medicine necessary, with a consequent expenditure of his own and the doctor's time. If, however, the doctor prescribes a pint at first to avoid waste of time there is a risk that such a quantity will not be required and that much of the medicine will be wasted. "Much time and medicine would be saved" the correspondent suggests, if doctors were able to state on certain prescriptions "to be repeated not more than three times."

No doubt the present prescribing system could be modified to allow a doctor to write repeat N.H.S. prescriptions, but administrative difficulties would arise particularly if patients were to be free to have the "repeat" medicines dispensed at different pharmacies. Financially the cost of extra dispensing fees involved in the suggested scheme would have to be set against the saving in cost of the medicine which would otherwise be wasted, but from considerations of drug economy (particularly important since many drugs have to be bought abroad) the success of the scheme would depend largely on the extent to which patients co-operated.

## Alterations to Business Premises

THE Town and Country Planning Act, 1947, which came into force on July 1, introduced some important changes in the law, and they affect traders who wish to make alterations or additions to their business premises. Prior to July 1, anyone who owned land was entitled to develop it, with certain limitations, just as he pleased. Now these rights are gone. A property owner may not erect new buildings or alter old ones without first obtaining the consent of the local authority. With a few exceptions, all he may do without permission is to continue to use his land or buildings in exactly the same way as he was doing on June 30, 1948. The right to control its use for any other purpose has been conferred upon the State.

If a trader's application to extend or improve his business premises is granted, he will have to pay to the State for this privilege what is called a "development charge." The amount of this charge is assessed at the time of the application and it must be paid before the work is started. If alterations or additions are carried out in defiance of these rules, the owner of the property may be compelled, at his own expense, to restore it to its former condition. On the other hand, the State has, however, established a Central Land Fund of £300,000,000 out of which compensation is to be paid to owners of property who have lost their development rights. Claims against the Fund should be made without delay, and it is advisable to employ a surveyor, as the assessment of this compensation is a matter for an expert.

In the Act there are a few small concessions under which it is legal for the owner of property to carry out repairs and even make minor alterations to his premises without the necessity of first obtaining permission, or without having to pay a development charge. These do not apply if a trader increases his accommodation to any material extent—for example, by adding another story, or by increasing the floor space, or by erecting an additional building on the land at the back of his premises. It is almost certain that in all these developments he will first have to get the permission of the local authority.

When permission is granted, the question then arises whether he will have to pay a "development charge" before carrying out the work. Generally speaking, the liability for this charge will exist unless the alterations or additions do not increase the cubic capacity of the existing building by more than one-tenth. Thus, if the total cubic content of the existing building is 8,000 cu. ft., the additions made must not bring the cubic content to more than 8.800 cu. ft., otherwise the development charge becomes payable. It seems that this exemption from liability to pay a development charge will apply even where a separate building is erected on the grounds of the premises, so long as the limit of additional cubic capacity is not exceeded.

If a trader is thinking of making structural alterations or additions to his premises and is in any doubt about his rights, he should apply to the local authority in order to find out whether he may proceed with the work without permission, and whether any development charge will be payable if permission is given.

# British Pharmaceutical Conference

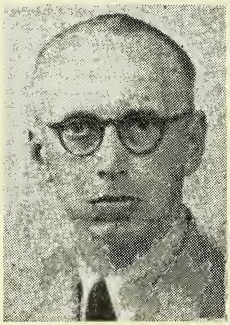
BRIGHTON 1948

*AUTHORS AND VISITORS*

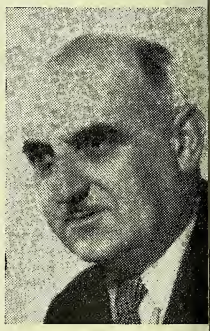
# CONFERENCE PERSONALITIES

Dr. E. Høst Madsen, president of the International Pharmaceutical Federation, is a son of a Copenhagen pharmacist. He graduated as a pharmacist in 1904 and after further studies in Rostock and Berlin worked for a period as an assistant in Britain with Mr. A. J. Phillips, M.P.S., Cromwell Road, London, S.W.7. Later he studied further in Paris and at the University of Copenhagen, and obtained his doctor's degree in science from that University in 1912. In the same year he became proprietor of the Vesterbro Apothek, Copenhagen. He was appointed a member of the Danish Pharmacopœia Commission in 1922, and in 1947 was elected an honorary member of the Pharmaceutical Society of Great Britain. During his stay in Brighton Dr. Host Madsen was given a high honour from the Queen of the Netherlands (see p. 348).

Dr. Teunis Potjewijd (a director of the Chemische Fabriek Gembo, Winschoten, Holland) has taken an active part for many years in international pharmaceutical affairs, and represented at the Conference the bureau of the International Pharmaceutical Federation, of which he has been secretary since 1931. He was elected an honorary member of the Pharmaceutical Society of Great Britain in 1947. From 1920-41 he served as a member of the council of the Nederlandsche Maatschappij ter Bevordering der Pharmacie, and for a number of years w secretary to a subcommittee of the Leag of Nations. Dr. Potjewijd, who qualifi as a pharmacist at the University of Le den in 1928, was chief pharmacist Leyden University Hospital, 1930-41, a obtained his doctor of science degree the University in 1924 with a thesis phytochemical research upon *Hyoscyam muticus* L. He is the author of ma articles in Dutch and other pharmace tical and medical journals, and forme edited the "Pharmaceutisch Weekblad In 1939 Dr. Potjewijd was given the Da ish honour of Knighthood in the Order Danebrog. Dr. Potjewijd trained as assistant with the late Dr. J. J. Hoffma the Hague, 1920-21.



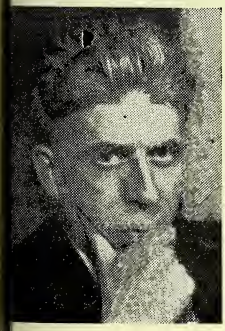
Mr. Frank Arnal, Docteur en Pharmac is president of the Conseil National l'Ordre des Pharmaciens, vice-president of the French Comité National des Pharmaciens, a member of l'Académie de Pharmacie and a vice-president of the International Pharmaceutical Federation. Mr. Arnal, whose pharmaceutical establishment in Toulon was destroyed by bombing in 1944, took a significant part in the resistan movement during the 1939-45 war. Amor the honours that he has been awarded that of *Officier de la Légion d'Honne* (military) decorated with the *Croix d Guerre,* 1914-18 and 1939-45, with eig *citations* and six *palmes,* and *Officier d l'Ordre de la Santé Publique.* Since 194 he has been *Deputé* for the constituenc of Toulon and Var.



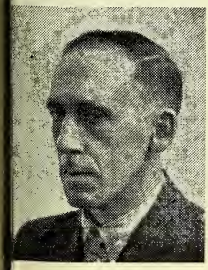
Mr. R. A. Bendel, secretary of th Apothecaries' Association of Norwa is qualified to deal with every aspect the secretaryship of that body. He gradu ated in pharmacy in 1921 in politic economy in 1923 and in law in 1929.

Mr. H. M. Moa, who was representing the Apothecaries' Association of Norway, of which he has been president since 1945, is lecturer in chemistry at the Pharmaceutical Institute at the Oslo University. He has served as president and later as secretary of the Norges Farmaceutiske Forening, and he has represented Norwegian pharmacists at professional meetings at home and abroad. He took his apothecary's degree in 1911, and qualified as a pharmaceutical chemist at Oslo in 1929.

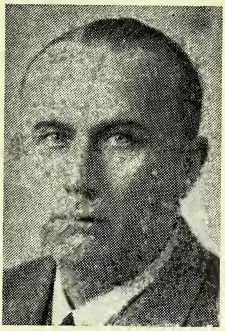
Mr. J. Tramasure represented La Nationale Pharmaceutique of Belgium, of which he has been chairman since 1946. Mr. Tramasure, who was granted his pharmaceutical diploma from the University of Brussels in 1922, has had a long experience of public work, having been appointed secretary of the Union Pharmaceutique d' Etterbeek, for example, in the year of his qualification, and shortly afterwards president. For several years he was secretary of the Federation des Pharmaciens de Bruxelles.



Professor E. H. Vogelenzang, Ph.D., president of the Dutch State Institute for Pharmacotherapeutical Research, was appointed professor of pharmacy and pharmaceutical chemistry at the University of Leyden in 1946. Apart from other pharmaceutical posts he has held, Professor Vogelenzang is editor-in-chief of "Pharmaceutisch Weekblad," and a member of the Dutch Pharmacopœia Commission. After qualifying as a pharmacist from the University of Utrecht in 1919 he was in business on his own account in Veendam for fourteen years, taking his Ph.D. degree during that time. He was reader in pharmaceutics in the medical and veterinary faculties of the University of Utrecht for a number of years until dismissed from his post by the Germans during the recent war.



Dr. A. Keilholz, who represented the Royal Dutch Pharmaceutical Society of which he is honorary secretary, has practised as a pharmacist in the Hague since obtaining his doctor's degree in 1921. He studied pharmacy at Leyden University and was granted his degree on his thesis "The search for some metals and arsenic in the human organism." Dr. Keilholz is a member of the commission of examiners in pharmacy at Leyden University, and has held his present office with the Dutch Society since 1945. During the 1939-45 war he took part in the resistance against the German-inspired "Apothekerskamer."



Mr. I. Michaels, Ph.D., B.Sc., F.R.I.C., Ph.C., author of a paper on the sterilisation of sodium bicarbonate solutions, is research pharmacist at the Westminster Laboratories, Ltd. Dr. Michaels qualified from the college of the Pharmaceutical Society as a chemist and druggist in 1937 and was silver medallist in the Ph.C. course the following year in pharmaceutics and pharmacognosy. He obtained his special degree in chemistry with honours in 1942. Until recently he was on the staff of the college of the Pharmaceutical Society under Professor Berry.

Mr. G. Bryan, M.P.S., co-author of a paper entitled "Instability of Picrotoxin in Alkaline Solution," is deputy chief pharmacist at the Children's Hospital, Birmingham. He qualified from the University of Leeds in 1943 and before taking up his present appointment served as pharmacist at Montagu Hospital, Mexborough, and as resident pharmacist at Queen Elizabeth Hospital, Birmingham. He is registrar of the Guild of Public Pharmacists, and for the past year has served on the Birmingham Region Hospital Advisory Committee.

Mr. P. B. Marshall, Ph.D., B.Sc., B.Pharm., Ph.C., co-author of a paper on picrotoxin in alkaline solution, took his pharmaceutical training at Nottingham University, qualifying in 1939. During the next two years he held the Rammell studentship in the Pharmaceutical Society's pharmacological laboratory and took his B.Sc. (honours physiology) degree and a Ph.D. in pharmacology. He is at the present time a lecturer in the department of pharmacology, University of Birmingham.

Mr. N. D. Edge, co-author of a paper on dimercaprol in iron poisoning, has been a member of the staff of the pharmacological laboratory of Glaxo Laboratories, Ltd., since 1943. He is at present in the final stage of study for a special degree in zoology at Birkbeck College.

Mr. H. R. Rowlinson, co-author of paper on diet and the sensitivity of mic to insulin, has been a member of the staff of the physiological department, The British Drug Houses, Ltd., since 1925, where he has been working principally on the development of insulin assay. Previously he was engaged on similar work at the National Institute for Medical Research from the time that the drug first became available in Britain

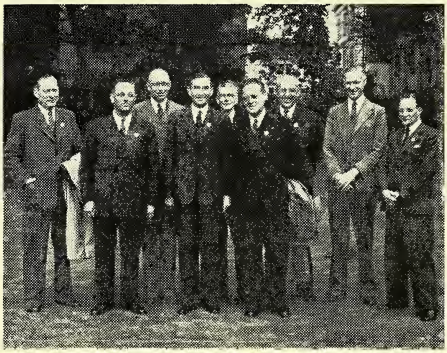
Miss Joan M. Lesford, B.Sc., ha worked on the development of insuli assay in the A. B. Laboratories for two years, and is one of the representatives of The British Drug Houses, Ltd., on the British Insulin Manufacturers' biological standardisation subcommittee. She was the co-author, with Mr. Rowlinson, of a paper on the sensitivity of mice to insulin.

Mr. Donald E. Seymour, F.R.I.C., co author of a paper on para-amino salicyli acid, is the research and development manager of Herts Pharmaceuticals, Ltd. After training at the organic chemistry department of the University of Manchester, where he was engaged in research on the structure of triterpene derivatives, he joined his present company. There he has been responsible for conducting and directing research on sterols, analgesics, sulphonamide compounds, and recently, on the chemotherapy of tuberculosis.

# FOCUS ON CONFERENCE MEMBERS

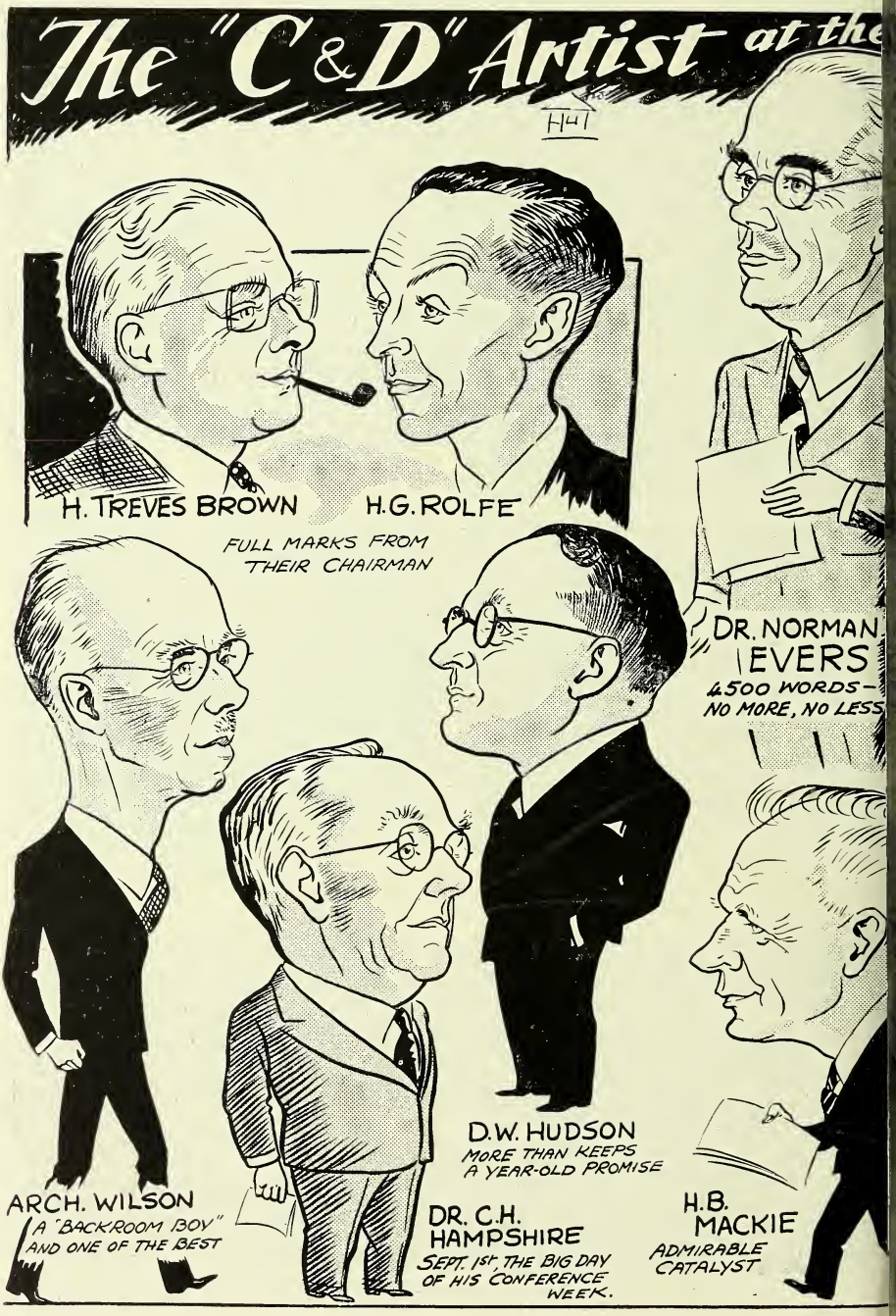
Members of the Conference assembled on the Pavilion lawn for the official photograph.

Three presidents and their wives. Left to right: Mr. and Mrs. J. McGregor (Northern Ireland), Mr. and Mrs. H. Clement Shaw (Great Britain), and Mr. and Mrs. P. A. Brady (Ireland).



Mr. H. N. Linstead, Dr. D. McCall, Mr. F. W. Adams and Mr. H. Treves Brown with Dr. T. Potjewijd and other visitors from European pharmaceutical organisations.

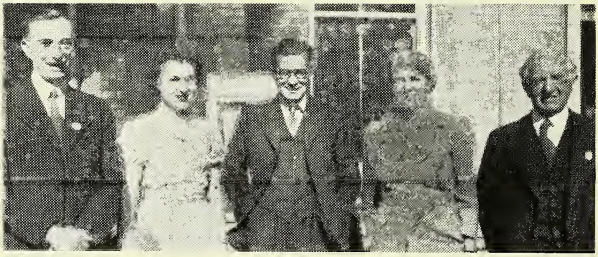
The mayors of Brighton and Hove with the Conference chairman, presidents of the Pharmaceutical Societies of Great Britain, Northern Ireland and Ireland, among overseas and other delegates.


The "C&D" Artist at the
H.T.
H. TREVES BROWN
H.G. ROLFE
FULL MARKS FROM THEIR CHAIRMAN
DR. NORMAN EVERS
4500 WORDS – NO MORE, NO LESS
ARCH. WILSON
A "BACKROOM BOY" AND ONE OF THE BEST
D.W. HUDSON
MORE THAN KEEPS A YEAR-OLD PROMISE
DR. C.H. HAMPSHIRE
SEPT. 1st, THE BIG DAY OF HIS CONFERENCE WEEK.
H.B. MACKIE
ADMIRABLE CATALYST

onference - BRIGHTON — 1948
H. C. SHAW
"I'M NO ORATOR"
DR. G.R. BOYES
- BOOKCASE TO FOLLOW
HUGH LINSTEAD. O.B.E. M.P.
DIRECTS CHEMISTS TO THE TOWN-HALL
E. HÖST-MADSEN
DENMARK
HIGH HONOURS FOR RESISTANCE
REGOR
IONS
E. NORTH
BRADY
P OFF THE
BLARNEY STONE
DR. H. DAVIS
RESPITE FROM WHITEHALL WORRIES.
DR. T. POTJEWIJD
HOLLAND
AFFAIRS OF INTERNATIONAL IMPORTANCE
DR. H. SPILLMANN
A SECRETARY FROM SWITZERLAND

# TWENTY-FIFTHS AT f/11

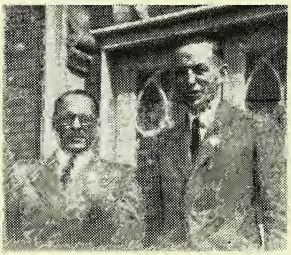
SNAPSHO S
AT BRIGHTO



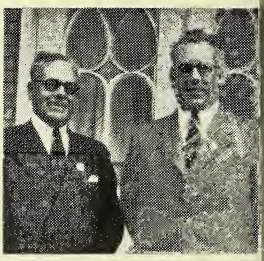
Mr. W. H. and Miss Joan Cloud, Mr. B. J. Thomas, Mrs. Cloud and Mr. J. Reed

Miss G. M. By
and Dr. H. Da

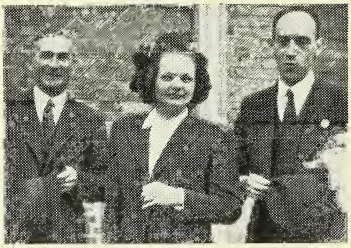
Mr. R. R. Bennett and Dr. C. H. Hampshire.



Dr. G. R. Boyes and Mr. R. G. Rolfe.

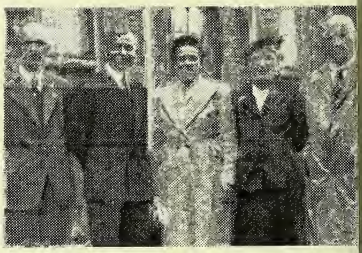


Mr. J. McGregor
Mr. P. A. Bra



Mr. H. N. Linstead with Dr. and Mrs. G. P. Weil, Belgium.

Mrs. J. K. Irvine, M.B.E.



Mr. T. H. Bagley, Mr. and Mrs. Neville Browne, Mrs. and Mr. F. G. Well

Dr. E. Host-Madsen.

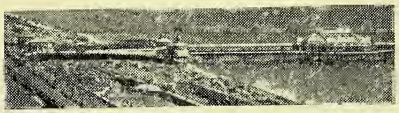
Hospital pharmacists all—a group outside the Corn Exchange.

Miss M. H. Nea

ritish Pharmaceutical Conference

BRIGHTON 1948

*OCIAL AND CIVIC SIDE*



# OVERSEAS VISITORS AT LUNCHEON

'HE president and secretary of the Inter-ational Pharmaceutical Federation (Dr. . Host Madsen and Dr. T. Potjewijd) and fficers of the pharmaceutical societies of x European countries were the guests of onour at the Branch Representatives' ncheon at Brighton on September 2. 'HE PRESIDENT OF THE PHARMACEUTICAL OCIETY OF GREAT BRITAIN (Mr. H. Cle-nent Shaw) invited representatives of Bel-ium, Denmark, France, the Netherlands, orway and Switzerland to address the athering. MR. J. TRAMASURE, Belgium, peaking in French, thanked the Society or its invitation to the Brighton Confer-nce, and for the affection and sympathy hat had been shown towards the guests rom abroad. MR. G. P. WEIL, Belgium, peaking in English, said that he and his olleagues had been much struck by the onderful strides that were being made in nproving the situation of Great Britain. n token of the gratitude and sympathy of elgian pharmacists, their President pro-osed to present to the Society a silver edal bearing the coat of arms of Bel-ium. Amid loud applause, MR. TRAMA-URE then handed the medal to the Presi-ent. On the reverse it was inscribed: *La Nationale Pharmaceutique de Bel-ique* à la Pharmaceutical Society of Great Britain: *Congrès de Brighton,* 1948." Mr. H. C. Shaw, acknowledging the gift, said nembers of his Society were touched by he presentation. MR. S. GELTING-HANSEN president, Pharmaceutical Society of Den-nark), after conveying the greetings of Danish pharmacists and expressing his hanks for the hearty welcome to the Brighton Conference, said he hoped that he Society in Great Britain would con-inue to play the same influential part in pharmacy that it had played hitherto.

**Olympic Bodyguard?**

DR. PASCAL, France, expressed the re-gret of MR. F. ARNAL (president, *Ordre des Pharmaciens*) that he had had to re-urn to France before the Conference was concluded. MR. SHAW said that Dr. Pascal was manager of the French Olympic wrest-ing team; he was thankful that Dr. Pascal had not been a delegate at the Representatives' Meeting, and proposed to appoint him his bodyguard for the rest of the day (laughter). PROFESSOR E. H. VOGELENZANG, on behalf of the president and Council of the Royal Netherlands Society for the Advancement of Pharmacy, said that after the battle of Arnhem in 1944 the western part of the Netherlands had been cut off from the source of its supplies of insulin. From February 1945 it had been necessary to cut the insulin ration to one-third and prohibit its use by any one over fifty-five years of age. In February and April 1945 rations of insulin had been dropped by the R.A.F. into Holland. Medicines, including crystalline insulin, had been brought to Holland in small boats, and the normal amounts of insulin had again been allowed after an interval of three weeks. The Dutch Society wished to take the opportunity provided by their first official contact with Britain after the war to present their official medal to the Pharmaceutical Society of Great Britain. The medal bore the inscription: "The Pharmaceutical Society of Great Britain, 1940-45" and the name of the donor. THE PRESIDENT, accepting the gift, said his Society would preserve it as a treasured memento. DR. A. KEILHOLZ (secretary of the Netherlands Society) thanked his audience for a most interesting and instructive conference, and for the many tokens of friendship that the Dutch visitors had found at Brighton. MR. H. M. MOA (Norwegian Society of Dispensing Chemists) said that British pharmacists and their organisations were so different from those in Scandinavian countries that it had been of the greatest interest to get a glimpse of pharmaceutical conditions in Britain. DR. W. HAAS, conveying the good wishes of the *Société Suisse de Pharmacie,* said that Swiss hopes and wishes were with the future of Great Britain; he drank to its welfare and that of the Society. THE PRESIDENT, thanking the speakers, asked them to take back with them the good wishes of the Pharmaceutical Society of Great Britain, and expressed the hope that they would be present at every one of its future conferences.

**Message from Poland**

At the Conference luncheon on Wednesday the chairman read the following telegram sent to the local secretary of the Conference: "All members of the Polish Pharmaceutical Association abroad wish to convey to the Assembly of the British Pharmaceutical Conference at Brighton their sincere thanks for the kind assistance and sympathetic understanding shown towards them by the Pharmaceutic Society of Great Britain. Those of who are registered are proud to be me bers of the Pharmaceutical Society and be associated with an organisation whi is contributing so successfully to the publ health and benefit of this country. W send our best wishes for the success ar future prosperity of British Pharmacy.- M. B. Grabowski, chairman."

# CONFERENCE BANQUET

At the Conference banquet, held in the Corn Exchange on September 2, the toast "The Conference and the Society" was proposed by Mr. A. E. Orbell, J.P. (chairman, Brighton Executive Council). During the past thirty years, he said, there had been a great advance in pharmaceutical science. The recent war had been a scientists' war, but many of the medical discoveries made then were available now for the purposes of peace. There was today a general call for higher standards of education. Those who guided the destiny of the Society should bear in mind that, to the layman, the service given by the individual pharmacist would serve as the criterion of the profession as a whole. Pharmacists had done fine work under National Health Insurance; now they were showing what they could do in the new National Health Service.

**Fourth Brighton Meeting**

Replying to the first part of the toast, Dr. Norman Evers said that the Conference had met four times at Brighton. The first occasion was in 1872, and it was interesting to go back to those days and compare them with the present meeting. The chairman (at that period, president) had been Mr. H. B. Brady, founder of the old-established business of Brady & Martin, Newcastle-on-Tyne. Two years after the Conference, Mr. Brady has been made a Fellow of the Royal Society. It was not uncommon in those days for Conference chairmen to be so honoured and Dr. Evers left it to his hearers to decide whether the calibre of Conference chairmen had deteriorated or whether the standards of the Royal Society had been raised. Among the officers of the 1872 Conference were such renowned pharmacists as Deane, Bentley, Hanbury, Carteighe, T. Greenish; the secretaries were Professor Attfield and F. Baden Benger. He wondered how many names from the present Conference would be so well remembered seventy-six yea ahead. A large part in the proceedin had been taken up with a symposium se sion on "Pharmaceutical Education," an many of the suggestions made at the se sion were only now being adopted. Fou teen papers had been presented, many c them of a high standard, although, i view of subsequent progress, it was eas to poke fun at some of the others, such a one recommending calcium chloride solu tion as disinfectant, the method of estima tion being to measure the period tha elapsed before mildew made its appear ance. Since 1872 the Conference, sai Dr. Evers, had had its ups and downs, bu he believed it was now at the beginnin of a period of revived youth and vigour The importance of scientific research wa growing year by year, and an importan recommendation of the Conference Executive was the formation by the Pharmaceutical Society of a Research Committee with members distinguished in the pharmaceutical field. Co-ordination of research would be of the utmost value in solving many problems, and he hoped the project would have full support both from the universities, hospitals and individuals, and from commercial firms. The scope might be limited at first but it would grow. There was no sign, Dr. Evers concluded, that the importance of pharmacy was in any way diminishing, and the activities of the Conference must increase with it.

**Educational Outlook**

On behalf of the Pharmaceutical Society, Mr. H. Clement Shaw (president) also responded. He took occasion to refer to educational problems which, he said, both pharmaceutically and generally, were becoming acute. Pharmaceutical standards were always ahead of requirements, just as requirements were always ahead of remuneration. In the training of the pharmacist stress should be laid on principles

and functions, thereby educating for life, rather than on the present mass of data which necessitated a refresher course with each new edition of the pharmacopœia. The president concluded with a graceful tribute to Mr. H. B. Mackie for his services to pharmaceutical education locally.

The toast "The Corporation of Brighton and the Corporation of Hove" was proposed by Mr. J. C. Hanbury, M.A., B.Pharm., F.R.I.C., who expressed the appreciation all the visitors felt for the civic hospitality shown.

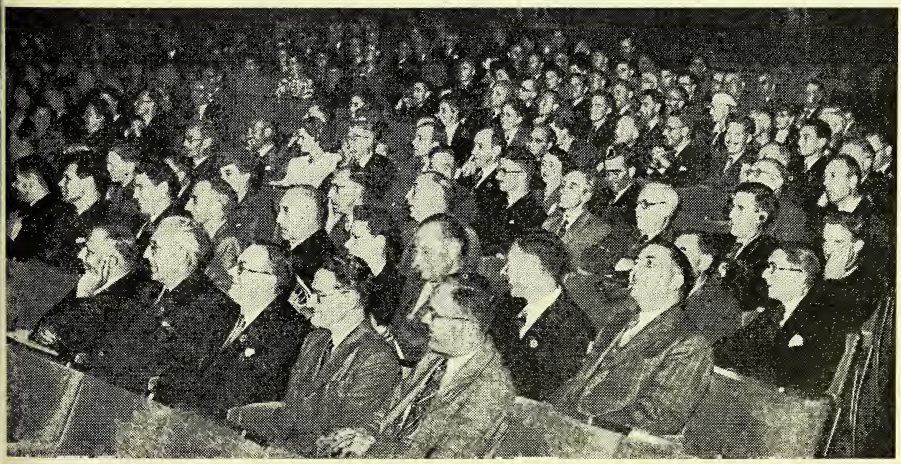
THE MAYOR OF BRIGHTON (Councillor P. F. Friend-James, O.B.E., J.P.) responded. He praised the efficiency of the officers of the Conference whom he had met in the course of the preliminary preparations, and welcomed the visitors from Great Britain and overseas ("Stranger is a sacred name").

THE MAYOR OF HOVE (Councillor F. G. J. Didden, J.P.) also welcomed the guests and hoped that some future meeting of the Conference might be held in Hove.

"The Guests" was proposed by MR. DONALD W. HUDSON (chairman of the local Conference committee) who welcomed the civic heads of Brighton, Hove and Lewes, the pharmacists present from many parts of Europe, and visitors from all parts of Great Britain. He especially welcomed Mr. J. McGregor (president of the Pharmaceutical Society of Northern Ireland) and Mr. P. A. Brady (president of the Pharmaceutical Society of Ireland).

DR. NORMAN MAPLE (a past chairman and secretary of the Brighton Branch, British Medical Association) said he found he was included on the toast list under his own name but that he ought to have appeared as Dr. 216. Indeed, he was really a numerical split personality, for he was on the medical lists of three Executive Councils and appeared variously as 216, 204 and M5. He acknowledged the indebtedness of doctors to the loyalty, co-operation and help of pharmacists. "We are members," he said, "not of two professions, but of two branches of the same profession."

On behalf of overseas members of the Conference a second response to the toast was made by Dr. E. Host-Madsen (president, International Federation), who received an ovation on rising. At Conferences, he said, one heard—as in books one read — "words, words, words," but that summary was not the whole truth. He wished to reveal what the words he had heard at the Conference had taught him and how they had "spoken to his feelings." Philosophers had written volumes about humour, but the English had shown it in their everyday speech, and even in presenting scientific papers. They had revealed to him that pharmacists in Britain wanted to work internationally, and pharmacists of other countries would go back fortified by that knowledge. They would take back both the impression that work was being done in Britain that was necessary for the future of Europe, and the confidence that Britain would surmount her difficulties. He wished "Good luck to the pharmacy of old England."



**Members assembled at the opening session at the Dome.**

# CONFERENCE SIDELIGHTS

On Friday afternoon of Conference week, competitors played at Hollingbury for the Edmund White golf trophy and the London challenge cup for bowls. The golf course was in good condition, but a strong wind added several strokes to many of the score cards. The winner was Mr. E. Robinson, Shipley (handicap 18) with Mr. W. E. Phillipson, Middleton (handicap 7) runner-up. Two rinks of four players took part in the bowls contest. Scotland was represented by Messrs. W. S. Culbert, Airdrie (skip), W. Peebles, Glasgow, R. McCrone, Coatbridge, and S. Hughan, Glasgow. The England team consisted of Messrs. G. Gardiner, Tonbridge (skip), J. A. Beardall, Prestwich, J. F. McNeal, Little Chalfont, and J. Reed, West Ham. After the score reached 8 all, England won a useful lead, but the Scots fought back to within 5 points of England's eventual winning total of 21 ends.

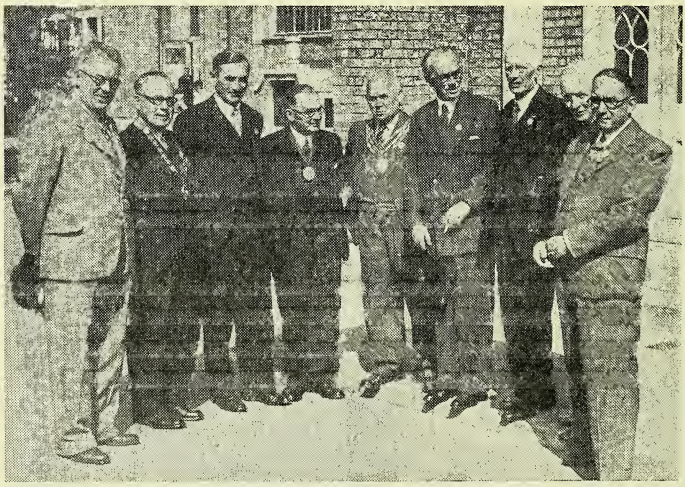
A putting competition held during the week was won by Mr. A. W. Bull, West Bridgford, with 78 for 36 holes. Mrs. J. F. McNeal won a prize for a hidden number with 126 for 36 holes.

The winners of the competitions were entertained at a dinner in the evening, when Mrs. H. C. Shaw presented the Edmund White golf trophy to Mr. Robinson, and Mrs. Norman Evers presented the London challenge cup to the skip of t winning rink (Mr. G. Gardiner). T Brighton and Hove Association of Ph macy had given six miniature silver cu one to each of the four members of t winning bowls team and one to the winn and runner-up of the golf competition, a the presentations were made by M Donald Hudson. Mr. H. C. Shaw (pre dent, Pharmaceutical Society) and D Norman Evers (Conference chairma proposed "The Winners," and Mr. Dona Hudson proposed "The Sports Subco mittee and its Chairman, Mr. S. Howard."

On August 29, during the meeting Brighton of the Bureau of the Inte national Federation of Pharmacy, Dr. Host-Madsen (its president) received fro Professor van Os (Dutch vice-president the Federation) the award of the Ord Oranje-Nassau. He was created an Offic of the Order by Queen Wilhelmina of t Netherlands for his courage in refusing yield to demands by the German occupie of Denmark during the 1939-45 war th he should surrender the insignia of t Federation or that he should allow t headquarters of the Federation to be tran ferred from Holland to Germany.

On the Tuesday afternoon ladies' ex cursion to West Sussex, the coaches wer through Shoreha and Lancing t Worthing, whe they turned fro the coast throug Arundel, crossin the river Arur Tea was taken a Chichester, whe some of the ladie visited the cathe dral.

Medals presente to the president o the Pharmaceutica Society by th Dutch Society fo the Advancemen of Pharmacy an by La National Pharmaceutiqu Belge (see p. 345 were circulated fo members' inspec tion at the banque on September 2.



**The Mayor of Lewes (Alderman Dick Whittington) with Conference members in the Royal Pavilion grounds at the opening of the Conference.**

*"Sussex Daily News" picture, reproduced by courtesy of the proprietors.*

# ritish Pharmaceutical Conference

BRIGHTON 1948

*RANCH REPRESENTATIVES' MEETING*

# WO COUNCIL REPORTS UNDER SCRUTINY

MEETING of Branch Representatives of Pharmaceutical Society was held in music room of the Royal Pavilion, ghton, on the Thursday of Conference ek, under the chairmanship of the presi- nt (Mr. H. Clement Shaw), who wel- med as guests at the meeting the presi- nt and other members of the Internat- al Pharmaceutical Federation. Opening meeting, MR. SHAW gave a synopsis of agenda, pointed out that "the deci- ns of today are the results of tomorrow," d summarised the rules of procedure in ingle sentence: "Obey the chair."

**int of Order**

An early shock was forthcoming for the tform. MR. J. W. BOWIE, Dartford, a point of order, said that several items sed at the previous meeting of repre- tatives in London in May were not on agenda; he mentioned specifically the asurer's undertaking to make a full state- nt on the finances relating to the ciety's Brunswick Square structure and the question of purchase tax on branded ds, about which members wanted, he d, a statement from the secretary. Deal- with this point of order THE SECRETARY r. Hugh N. Linstead, O.B.E., M.P., .C.), declared that, when the new sys- n under which two such meetings were d annually was introduced, it was derstood that one would be reserved for olutions from branches, and the second uld be for subjects brought forward by Council. There was thus a sort of eap-frogging," under which the points sed in May would be carried over to following May. On the two subjects sed by Mr. Bowie, however, he had this say. The purchase tax question was w settled, and the details were being rked out. The Treasury had decided to ke a concession under which dispensed oprietary medicines supplied in bulk uld go tax-free; there was no other ange from the original proposals. It d not been possible to issue the state- nt promised by the treasurer because gotiations to reach agreement on the ue of the building were still in progress with the intending purchasers, the University of London. Members could be assured, however, that the approval of a general meeting of members would be sought before any sale of the building was effected.

**Proposals for Revised Constitution**

Two subjects were brought forward by the Council for discussion by the Branch Representatives: (a) A further report of revisions of the Society's constitution (see *C. & D.*, August 14, p. 208); and (b) a statement on the pharmaceutical services provided under the National Health Service. THE CHAIRMAN went through each report paragraph by paragraph, and representatives were at liberty to rise and speak on any matter about which they wished to introduce discussion.

MR. M. JACKSON, Leeds, opened from the floor by declaring that branches were disappointed that they had been given no opportunity of studying the document before them. Although it had taken about a year to produce, Appendix A (on the constitution) was almost the same as that presented a year earlier (Appendix B). He asked for assurances that in future branches would have time to examine any such documents, and that any detailed proposals would be submitted to members before ratification by the Council. MR. L. SPALTON, Leicestershire, said his branch also considered that inadequate notice had been given. He made the concrete suggestion that any such reports should be in the hands of branch secretaries at least four weeks before any meeting of Branch Representatives. MR. E. ROBINSON, Bradford, said that members of his branch were agreed about the inadequacy not only of the time given to study the report, but also of the "diet" provided. At Torquay the previous year it had been stated that a considerable time would elapse before any change would become possible for the Society's constitution. He wondered how much time had been spent on Appendix A, for it was not of the character that members expected from their Council. The survey could as easily have been given in 1947.

Mr. H. Long, Bristol, said that there was a real need to clarify the functions and purpose of the Branch Representatives' meeting. Had it the status of a lower house, he asked, or indeed any status at all? Mr. H. Clement Shaw interpolated here a declaration that the Council must function as a Council; it could not hold itself bound by the decision of the Branch Representatives' meeting, and if members disagreed with any course taken by their Council they should take steps to replace their elected representatives with others.

The Secretary of the Society (Mr. H. N. Linstead) admitted the late sending-out of Appendix A, but said it had not been easy, on account of discussions that had been taking place during the year, to get ready even the brief *résumé* given. The extent and powers of that meeting must be regarded as experimental, and it would be necessary to profit by the experience gained at each one. He thought it fair to say that no new points were raised in Appendix A. The pink document (Appendix B) had already been considered by branches, and the changes put forward in the blue Appendix A incorporated the outcome of the discussions at Torquay in 1947. If there remained any great differences of opinion among representatives, they were at liberty to reject the report. Whatever happened, the report remained only a skeleton and must give way to a detailed third stage. Although no vote was taken, it appeared that there was general approval of the report.

### An Intentionally Comprehensive Term

The meeting then proceeded to consider clause 3, dealing with the objects, powers and duties of the Society. Mr. A. B. Gilmour, Glasgow, asked for further explanation of the phrase "interests of the pharmaceutical profession," and Mr. H. C. Shaw replied that the present wording was "interests of chemists and druggists." The new term was intended to be "rather comprehensive" and it was possibly better not to insist on too close a definition. Mr. H N. Linstead pointed out to Mr. Gilmour that the phrase would include "any practising pharmacist anywhere."

Mr. P. Varley, Blackpool, considered that it would be time enough to make the proposed change when it was legally possible to insert the personal title "pharmaceutical chemist"; he was reminded by the Chairman that the educational regulations providing for the replacement of the chemist and druggist by a pharmace tical chemist qualification would be operation before the matters dealt with the report went through.

### Why the Society is not "Royal"

Mr. R. W. Jones, Blackpool, said h branch was against the omission of t title "chemist and druggist." Mr. L. Matthews, North Metropolitan, said was laid down in the 1908 Act that che ists and druggists could call themselv pharmacists. In other words the tit "pharmacist" was protected. His chi regret arising from the report was that reference had been made to the possib inclusion of "Royal" in the title of t Society. Long-established bodies h thought it worth while to get their titl modified in that way and he thought t Society should follow suit.

Mr. E. Neville Brown, South-we Metropolitan, asked what was meant by t phrase "are or have been" in the clau dealing with relief. He hoped there wou be no exclusion of persons who were longer members because they were unab to pay their retention fee. Mr. H. Wals Birmingham, thought the word "interest too finely drawn. The National Heal Services introduced new consideratio and he would like to see words like "as public service" included. Mr. H. Lon Bristol, suggested the alternatives "to pr mote the status of the pharmaceutical pr fession" or "to promote the status a business of pharmacists" as possibly me ing the idea Mr. Walsh had in mind.

Mr. Linstead summarised the Counci views on the various points raised. It h been thought unwise, he said, to take t reference to chemists and druggists out the Charter until the new pharmaceutic chemist qualification and title were su stituted. There was nothing in the par graph to detract from the power of t Society to look after the interests of any its members. While no Society, he claime was more attached than the Pharmace tical Society to the King as a symb there was an affection for its present ti and therefore, when previously it had be suggested that the Society should apply become "Royal" a compromise had be reached by inviting the King to become patron of the Society. The words "are have been" were necessary, he told M Neville Brown, because of the alterati of the law under the Pharmacy and Poiso Act, 1933. Under that Act everybody

he Register was a member of the Society, nd vice versa. The Society wanted to be ible to help hardship cases, but obviously ould not pay subscriptions for members vho were no longer alive, and the clause had been necessary to cover dependants. He personally, like Mr. Walsh, disliked the word "interests," but thought that Mr. Walsh's point was met by the phrase "to dvance pharmacy," given as the first of he "objects, powers and duties."

Mr. Andrew Officer, Glasgow and South-western Scottish, said it was good news to learn from the report that revision to the Charter was now much more easily achievable than formerly, but in so ar as the Charter was a memorandum of undamentals it should not be altered vithout full consultation of every member. He asked for an assurance (later given by he chairman) that this would be done.

Mr. C. Norman, North Metropolitan, sked whether the Council had given any hought to the inclusion in the Register of sts of holders of its diplomas, and the ecretary replied that there would be no ifficulty about including such names, but here was no particular advantage in doing o. If names other than those statutorily equired were included the Society might e faced with a request to include holders f university qualifications.

### Dilution Opposed

Mr. F. T. R. Hollings, Teeside, said e had been sent by his branch to oppose ny dilution of the Register. Mr. Linstead replied that fear of dilution was today unnecessary. Earlier dilutions had een made under a by-law that had now apsed, and at present no pressure could e brought to admit persons who had not assed the Society's examinations.

When clause 7 (proposing additional ouncil members appointed by the Privy ouncil) was reached, Mr. H. Bradshaw, Huddersfield, declared that at Torquay in 947 Branch Representatives had not greed on that point. He thought that if he co-opted members were pharmacists, hey should be put through by the ordinary processes of election. Mr. A. B. Gilour, Glasgow, was informed from the hair that if the provisions were carried here might be one, two or three members om Scotland, but "it would be wrong limit the choice to a particular area." Mr. L. Spalton, Leics, argued that the ause did not meet the arguments brought orward at Torquay. He thought there was confusion between attempting to forestall Government action and getting members on to the Council who would otherwise not be available. Could not co-opted members serve only on committees?

### Looking Ahead

Mr. Linstead rose to explain the Council's viewpoint. The trend of political movement, he said, whatever party was in power, was towards a greater measure of State control—the only factor that would change with political colour being the speed of progress. The important question was whether control should be taken over completely by the Minister of Health, or remain in the hands of self-governing professions. The healthy way, he thought, was for professional bodies to look after professional interests. The proportion of three Privy Council members out of twenty-one was a small Government nucleus for a professional body having such wide powers as the Pharmaceutical Society, and the Council felt that the additional representation was not excessive.

Mr. M. Jackson, Leeds, speaking on the "organisation" clause, said his branch insisted on the constitution of the Branch Representatives' meeting being fitted into the framework of the Society. In the past, resolutions had been turned down as unrepresentative, but, as membership of the Society was now compulsory, members had a right to safeguard their privileges in any revised constitution.

The next point on which there was any considerable discussion was a proposal providing for the formation of special groups of members within the Society. Mr. G. Bryan, Birmingham, asked whether it was the intention to take over such bodies as the Guild of Public Pharmacists. Mr. Richard thought there was no call for such groupings, and Mr. R. McCrone, Glasgow, thought the proposal at variance with the previous clause (clause 8) formally recognising the branch system.

Mr. H. N. Linstead, for the Council, thought undue importance was being attached to the clause. Suppose a functional group wanted to come within the framework of the branch system, why exclude it as unconstitutional? The clause would prevent the "hiving-off" of independent groups.

Mr. Long, Bristol, asked whether it was desirable to take any action at all, as there was nothing to prevent groups forming, although they might be unrecognised. By

enabling recognition the clause opened the way to a possibility that the Society might be compelled to recognise any sectional interest, or to support one against another.

Mr. Linstead explained that conditions for admission would have to be laid down, but the clause would provide a means of exercising influence on a group of members. Mr. Cochran, Thames Valley, supported the principle of the clause, contending that it would be an advantage for the whole body that the views of the minority groups should be put before the complete membership.

Miss M. H. Perkins, Leics, asked how the National Pharmaceutical Union would be affected, and Mr. Linstead caused considerable laughter by asking why, if the N.P.U. wished to come into the branch organisation, it should not be allowed to.

Acceptance of the Appendix was moved by Mr. W. H. Cloud, West Ham, seconded, and carried *nem. con.*

**Society's Attitude to N.H.S.**

Discussion then turned to Appendix C (the statement on pharmaceutical services under N.H.S.). Mr. Linstead explained that the report was about points at issue between the Society and the Ministry. It was felt that there should be full participation by pharmacists on the three levels of planning, administration, and the carrying-out of the actual pharmaceutical work. If the Town Hall were left to operate the pharmaceutical services without pharmacists, that would be "weak spot number 1," and it was the duty of branches to link up with the Town Hall.

Mr. F. T. R. Hollings, Teeside, said that members were being told what to do, but they themselves would like to know what the Society would do for the branches. He felt that, like the doctors' organisations, the Society should write to local authorities at the appropriate time to urge consultation with pharmacists. Mr. P. Varley, Blackpool, said that at least one member of every profession was on the Blackpool Health Committee, and this system had worked well. Mr. F. H. Swire, Halifax, said that his experience had been that, in general, lay members of Health Committees had little conception of what pharmacy was. Chemists must therefore "put themselves over."

Mr. Linstead thought that Blackpool had the right solution. Something could be done on these lines, he said, and an appeal to the Ministry of Health by the Society had brought the "dusty answer" that the Ministry wished to leave Healt Committees with the fullest autonomy. I his view it was necessary to "break up th problem into small pieces and worry it ou locally."

Mr. H. Clement Shaw, from the chai said his own branch had found it a goo investment to invite the civic authoritie to meet pharmacists at an annual functior

**Medical Aid Societies**

Mr. Linstead next spoke on healt centres. The negotiators had been told i the early stages, he said, that progress i erecting health centres would be slow, bu subsequently the Ministry had been calle upon to deal with existing medical-ai societies rendered redundant by the Act These had been kept going by calling then health centres and running them under th local authority for six months, and th effect had been to attach the name healtl centre to an inferior organisation.

Mr. H. Walsh, Birmingham, though the arrangements for dealing with th medical-aid societies might prove the thir end of the wedge of a very raw deal. Th Society should make it clear that the Min istry was evading its agreement in settin up health centres in that way. Mr. H. R Nightingale, Enfield, said the only solu tion was not to allow dispensaries in healt centres, and to make existing pharmacie an incorporate part of any health centre that might be set up in the future. Mr P. G. Flood, South-east Metropolitan, saic his business was next door to a healt centre and in his view chemists had noth ing to fear from them. His own volume of business had been put up since the health centre reopened after the war.

A member raised the question of the position of pharmacists in localities wherc there existed a surgery and pharmacy with a common entrance. Mr. Linstead replied that a common entrance was certainly regarded as objectionable. Other similar difficulties arose under the Act, and action could in some cases be taken.

Mr. H. Bradshaw, Huddersfield, said that in his area a health-centres subcommittee had been set up, and this had proved a safeguard against arbitrary establishment of new health centres. Mr. A. Officer, Glasgow, thought that it was less important to prohibit a common entrance for a surgery and pharmacy than to disallow surgeries on business premises occupied by a pharmacist.

**Publicity for Choice of Chemist**

Mr. J. Reed, West Ham, said that, although the patient could choose where his prescription should be made up, bringing this to the notice of customers in shops was preaching to the converted. What was wanted was a notice to the same effect exhibited in every health centre. Mr. Linstead thought it was wishful thinking for pharmacists to expect that course to be taken, but such a notice was already on the prescription forms.

When the paragraphs relating to hospitals came up for discussion, Mr. G. Bryan, Birmingham, said the Guild of Public Pharmacists agreed that there should be advisory pharmacists, but urged the formation also of advisory committees composed of hospital pharmacists. The functions of chief and group pharmacists should be clearly defined, and the Guild took the view that it was not possible to combine the two functions in one person. Mr. Linstead said he felt certain that the Guild would have to reconsider its attitude to group and chief pharmacists.

Discussion next took place on the position of pharmacist managers under N.H.S. Mr. Linstead said that the Ministry's point of view (that a proprietor chemist was the contractor and, therefore, the only person with whom they were concerned), was at variance with the Society's that professional service was provided by an individual, who ought to be responsible.

Mr. H. Walsh, Birmingham, deplored that, in allowing a situation to arise in which only contractors were recognised, pharmacy had lost its biggest chance.

Mr. Gillham, Leeds, entered a *caveat* that in the past employers had been responsible for damages; if the employees were given greater responsibility, who would have the liability for damages? Mr. Linstead replied that, under Common Law, both persons were equally liable; in practice the proprietor was sued because he had the resources. Replying to Mr. Davies, West Ham, Mr. Linstead said the Society held that it would be unwise to lay down specified lists of equipment to be provided by contractors.

Passing to clause 12 (pharmaceutical man-power) Mr. Linstead thought the problem should be examined again without prejudice. An increased number of pharmacists, he said, would result in there being more shops, not in there being more pharmacists available for duties in existing shops. What was really required was additional "hands" for carrying out the mechanical part of the work.

Mr. E. Carter, Eastbourne, asked whether the Society proposed to institute some standards for entrants who did not intend to qualify. Mr. Warburton thought that experienced unqualified assistants were now a dying race. Mr. F. H. Oliver, Portsmouth, disliked the idea of a qualification for the unqualified, but said the fact that the demand existed must be faced; the time had come to take steps to institute a course for such people employed in pharmacy. Mr. P. G. Flood, South-east Metropolitan, appealed to the Education Committee to recognise the plight of the unqualified, and suggested that recognition should be given to experienced unqualified persons who could secure the recommendation of two practising pharmacists. The creation in Ireland of a class of registered druggists had, he said, brought no harm to the position of pharmacists in that country. Mr. H. Walsh thought that the creation of a new class of recognised assistants would not be a danger to retail pharmacists, but would affect hospital pharmacists.

**Nothing to Fear**

Summing up, Mr. Linstead thought that some sort of recognition of the unqualified would undoubtedly attract manpower to pharmacy. It would give the certainty of a career to persons who were not holders, for example, of the Higher School certificate. It was true that unqualified assistants of the old type were a dying race, but their places were being taken by young girls, and there was still in pharmacy a reliance upon unqualified labour. The syllabus for a diploma for such unqualified assistants would be built according to requirements. He did not think that hospital pharmacists would have anything to fear from such a development.

The report was adopted.

Mr. Bowie, Dartford, asked that a verbatim report of the proceedings should be issued to branch secretaries. Mr. Linstead stated that a full but not verbatim report would be made available. It was also intimated from the platform that the request for one month's notice of any proposals to be put before the Branch Representatives' meeting would be complied with. The proceedings terminated with a vote of thanks to the chairman, proposed by Mr. J. F. McNeal (vice-president of the Pharmaceutical Society).

# British Pharmaceutical Conference

BRIGHTON 1948

*SCIENCE SESSIONS*

# SCIENCE PAPERS AND DISCUSSIONS

[*Continued from* THE CHEMIST AND DRUGGIST, *September* 4, *p.* 319]

## Bicarbonate Solution Sterilisation

By I. MICHAELS

[ABSTRACT]

SODIUM bicarbonate solutions were autoclaved in hermetically sealed and non-hermetically sealed containers. The *p*H value of all solutions showed increase in alkalinity, particularly when in the non-hermetically sealed containers. The proportion of the original bicarbonate remaining in sodium bicarbonate solutions autoclaved in screw-cap bottles and allowed to stand overnight before opening was estimated by electrometric titration. When the containers were nine-tenths full about 93 to 95 per cent. was present; in bottles a quarter full, approximately 89 per cent. remained. Half to three hours' delay in opening the containers in which sodium bicarbonate solutions were autoclaved and allowed to cool at room temperature caused little difference in the remaining bicarbonate concentration. In order to produce a solution which, after autoclaving, indicated the absence of carbonate, it was necessary to pass carbon dioxide into a 5 per cent. solution for two minutes for half pint and three minutes for one pint. Sodium bicarbonate solution, passed through a Seitz filter, contained approximately 95.5 per cent. of its original bicarbonate content immediately after 100 mils of solution had been filtered and approximately 89.5 per cent. after the filtered solution had been subjected to the negative pressure for one hour. (From the school of pharmacy, Chelsea Polytechnic).

DISCUSSION

MR. J. R. ELLIOTT pointed out that ampoules of sodium bicarbonate were needed in an emergency, and so were made and kept in stock. Was any information available on the effect of storage? Had filtration under positive pressure been tried?

MR. F. H. OLIVER, Portsmouth, suggested that a catalyst might be found that would quickly restore equilibrium in the solution.

MR. H. GRAINGER asked if examination had been made of solutions made immediately before use with sodium bicarbonate that had been heated to dryness.

DR. D. C. GARRATT, London, thoug the author's otherwise valuable experimen had been vitiated by a tendency to giv the results to an unwarranted number decimal places. MR. WHITTET warned th some physicians refuse to administer sol tions of greater strength than isotonic.

Replying, DR. MICHAELS said that som filtrations had been done through a Sei filter under positive pressure, but nor under carbon dioxide. The results showe no difference from normal pressure. H had no information about the other poin that had been raised.

## Sources and Testing of Pyrogen

By D. W. WYLIE AND J. P. TODD

[ABSTRACT]

PURE cultures of various types of bacteria yeasts and moulds were investigated t find whether they were sources of pyroger using a test based on measurement of ris in body temperature in a group of rabbit when a solution was injected intravenously The relationship between the dose injecte and the average reaction, plotted as graph, gave a curve similar to that fo other pharmacologically active substance that stimulate a measurable reaction. Tw different types of fevers, stimulated by th injection of various solutions of bacteria origin, were observed, one showing a singl peak, followed by a fall to normal bod temperature, and the other a double peak the second peak of which seemed t depend on the presence of the bacteria cells because their removal largely elimi nated it. All bacteria tested showed produc tion of pyrogen, whereas the yeasts and th moulds showed no detectable quantities and the Gram-negative bacilli showed much greater powers of pyrogen produc tion than the Gram-positive types. *Corynebacterium diphtheriæ* produced little pyrogenic response. Neither storage nor the normal process of sterilisation by autoclaving at 115° C. for thirty minutes had the effect of removing pyrogen from solution. (From the Pharmacy Department, Royal Technical College, Glasgow.)

(*To be continued*)

# STOCK EXCHANGE PRICES

**Quotations are the average for the day stated. New securities are shown in italics.**

| £1 unit unless otherwise stated | July 30 1948 | Aug. 31 1948 |
|---|---|---|
| | s. d. | s. d. |
| lbright & Wilson, ord., 5s. ... | 27 9 | 28 3 |
| len & Hanburys, prefd. ord. 7% cum. ... ... ... ... | 31 3 | 31 3 |
| *nber Chemical, ord., 2s.* ... | 9 6 | 9 6 |
| *nber Chemical, 5% cum. pref.* | 25 0 | 25 0 |
| cotts Pharmacies, ord. stock, 5s. | 10 7 | 10 7½ |
| pro, ord. stock, 5s. ... ... | 36 3 | 36 3 |
| echam Group, defd., 2s. 6d. ... | 18 9 | 19 3 |
| echam Maclean Holdings 4% red. cum. pref. ... ... ... | 21 3 | 21 3 |
| ake, Roberts, ord., 5s. ... | 28 9 | 28 9 |
| ots (Eastern) "A" pfd. 6% cum. | 31 0 | 31 0 |
| ots (Northern) "A" pfd. 6% cum. | 31 0 | 31 0 |
| ots (Western) "A" pfd. ord. (7% non-cum.) ... ... ... | 37 3 | 37 3 |
| ots Pure Drug, ord., 5s. ... | 49 0 | 53 0 |
| rax Consold., defd. ord. stock | 57 6 | 58 1½ |
| itish Alkaloids, ord., 1s. ... | 6 6 | 6 6 |
| itish Chemicals & Biologicals, 4% cum. red. pref. ... ... | 22 0 | 22 0 |
| itish Drug Houses, ord., 5s. ... | 8 6 | 8 6 |
| itish Emulsifiers, 2s. ... ... | 1 0 | 1 0 |
| itish Glues & Chemic., ord., 4s. | 19 0 | 18 6 |
| itish Industrial Plastics, ord., 2s. | 6 6 | 6 9 |
| *itish Optical & Prec. Eng., 5%* | 96% | 96% |
| itish Oxygen Co., ord. stock ... | 96 3 | 97 6 |
| itish Xylonite Co., ord. stock ... | 105 0 | 105 0 |
| rt, Boulton & Haywood, ord. | 27 6 | 25 7½ |
| sh (W. J.), & Co., ord. ... | 85 0 | 85 0 |
| mwal, ord. ... ... ... | 21 3 | 21 3 |
| oper, McD. & Robertson, ord. | 38 9 | 36 3 |
| w, (P.B.) & Co., ord. stock, 4s. | 17 3 | 17 6 |
| w & Gate, ord. stock, 1s. ... | 2 9 | 3 0 |
| osfield, J., & Sons, 5% cum. pre-pref. ... ... ... ... | 26 3 | 26 3 |
| *ssons Sons & Co., ord. stock, 2s.* | 20 0 | 20 0 |
| stillers, ord. stock, 4s. ... | 26 7½ | 26 6 |
| barry Perfumery Co., ord., 1s. | 4 7½ | 4 7½ |
| nlop Rubber Co., ord. stock ... | 70 0 | 73 3 |
| ergen Foods Co., ord., 2s. ... | 8 0 | 8 0 |
| o Proprietaries, 5½% cum. pref. | 26 7½ | 26 6¾ |
| cryl, stock, 2s. ... ... ... | 6 3 | 6 3 |
| ans Medical Supplies, ord. stock | 36 3 | 33 9 |
| eld, J. C. & J., ord., 10s. ... | 28 9 | 28 9 |
| sons, ord. stock ... ... ... | 58 0 | 58 0 |
| sons, 4½% cum. pref. ... ... | 24 0 | 24 0 |
| alloway, P. H., ord., 2s. ... | 4 9 | 4 9 |
| illette Safety Razor Co. shares (no par value) ... ... ... | $54.00 | $53.00 |
| laxo Laboratories, ord. stock, 10s. | 330 0 | 350 0 |
| laxo Laboratories, 8% cum. pref. ord. stock, 10s. ... ... | 20 3¾ | 20 3¾ |
| ossage, W., & Sons, 5% 1st cum. pref. ... ... ... ... | 26 3 | 26 3 |
| reeff-Chemicals Holdgs., ord. 5s. | 13 6 | 13 6 |
| riffiths Hughes Proprietaries, ord. | 27 6 | 32 6 |
| uiterman, S., ord. stock, 2s. ... | 3 6 | 2 9 |
| ampshire, F. W., stock, 5s. ... | 80 0 | 80 0 |
| orlicks, stock, 5s. ... ... ... | 29 4½ | 29 4½ |
| ovenden, R., & Sons, 7% cum. "A" pref. ... ... ... | 26 3 | 26 3 |

| £1 unit unless otherwise stated | July 30 1948 | Aug. 31 1948 |
|---|---|---|
| | s. d. | s. d. |
| Idris, "A" ord. ... ... ... | 38 9 | 38 9 |
| Ilford, ord. stock, 5s. ... ... | 25 0 | 25 11¼ |
| Imperial Chemical Industries, ord. | 45 7½ | 44 6 |
| Imperial Chemical Industries, 7% cum. pref. stock ... ... ... | 37 6 | 36 9 |
| International Sponge Importers, ord. stock, 5s. ... ... ... | 5 9 | 5 6 |
| Kent, G. B., & Sons, 5% cum. ptpg. pref., 12s. 6d. ... ... | 17 6 | 15 7¼ |
| Kershaw, A., & Sons, ord., 1s. ... | 2 1½ | 1 3 |
| Kleeman, O. & M., ord. stock, 1s. | 23 0 | 24 0 |
| Laporte Chemicals, ord. stock ... | 20 7½ | 20 7½ |
| Lever Brothers & Unilever, ord. | 47 6 | 48 9 |
| Lewis & Burrows, ord. stock ... | 30 0 | 30 0 |
| Lewis & Peat, ord., 1s. ... ... | 2 7½ | 2 7½ |
| Liebig's Extract of Meat, ord., £5 | 290 0 | 300 0 |
| Macleans, 4% red. cum. pref. ... | 20 0 | 20 0 |
| Mellin's Food, 6% cum. pref ... | 9 0 | 7 6 |
| Milton Antiseptic, ord., 10s. ... | 25 0 | 25 0 |
| Mono Containers, 5s. ... ... | 16 10½ | 16 10½ |
| Monsanto Chemicals, ord., 5s. ... | 57 6 | 58 9 |
| Pears, A. & F., 5% deb. stock, irred. ... ... ... ... | 130% | 130% |
| *Potter & Clarke, ord. 1s.* ... | 4 6 | 4 6 |
| Reckitt & Sons, ord. stock ... ... | 126 3 | 106 3 |
| Rolls Razor, prefd. ord., 10s. ... | 25 0 | 25 0 |
| Sangers, ord. stock, 5s. ... ... | 29 9 | 29 6 |
| "Sanitas" Trust, ord., 10s. ... | 25 0 | 25 0 |
| Savory & Moore, 5½% 1st red. cum. pref. stock ... ... ... | 24 0¾ | 24 0¾ |
| Sherley, A. F. & Co., 8% cum. prefd. ord. ... ... ... | 22 6 | 22 6 |
| Smith & Nephew Associated Cos., ord., 4s. ... ... ... ... | 16 6¾ | 16 6 |
| South African Druggists, ord. 5s. | 23 3 | 23 9 |
| Southalls (Birmingham), stock, 5s. | 40 0 | 40 0 |
| Sternol, 8% cum. ptpg. prefd. ord., 10s. ... ... ... ... | 14 4½ | 15 7½ |
| Stevenson & Howell, ord. stock, 5s. | 25 6 | 25 0 |
| Taylors, Cash Chemists, London, 6% cum. pref. ... ... ... | 29 4½ | 30 0 |
| Taylors, Cash Chemists, Trust, 6% cum. pref. ... ... ... | 29 4½ | 30 0 |
| Taylor's Drug Co., 7% "A" cum. pref. ... ... ... ... | 32 6 | 31 10½ |
| United Glass Bottle, ord. stock ... | 70 0 | 72 6 |
| Veno Drug Co., 12% cum. prefd. ord. ... ... ... ... ... | 40 0 | 40 0 |
| Virol, ord. ... ... ... ... | 75 0 | 75 0 |
| Viscose Development Co., ord. stock, 5s. ... ... ... ... | 10 6 | 10 6 |
| Vitamins, 1s. ... ... ... ... | 5 0 | 4 6 |
| Wesley, Harold, 5s. ... ... ... | 15 7½ | 15 7½ |
| Whites (Timothy) & Taylors, ord., 5s. ... ... ... ... ... | 35 0 | 35 0 |
| Whites (Timothy) & Taylors, 7½% cum. pref. ... ... ... ... | 37 6 | 37 6 |
| Wright, Layman & Umney, 7% cum. pref. ... ... ... ... | 31 3 | 31 3 |
| Yardley & Co., ord., 4s. ... ... | 58 9 | 58 9 |
| Yardley & Co., "A" ord., 4s. ... | 58 9 | 58 9 |

# TRADE REPORT

**Spot quotations for pharmaceutical chemicals represent the prices for wholesale quan ties of standard quality. Prices of crude drugs and essential oils vary as to brand or grad**

## 28 Essex Street, W.C.2, Sept. 8

BUSINESS in PHARMACEUTICAL and FINE CHEMICALS has been on a modest scale on home-trade account with prices, generally, remaining at former levels. ACETANILIDE is, however, a little easier; for crystals the price is now 2s. 3d., and for powder 2s. 4d. per lb., in 1-cwt. kegs. BENZOIC ACID is in good demand at slightly lower prices. Makers of EMETINE HYDROCHLORIDE announce a reduction in price of 15s. per oz.; from September 5, the rate for 32-oz. lots (1-kilo) is 175s. per oz. Supplies of QUININE SULPHATE, B.P. 1948, are available from makers at from 4s. to 4s. 6d. per oz. according to quantity.

Inquiry for CRUDE DRUGS has been on a fair scale but business has in many instances been small. AGAR has received a good inquiry from the Continent; prices are little changed on the week. ALOES is a steady market. Curaçao is offered at from 200s. for Tel Quel up to 220s. per cwt. for the finer pale liver grades. Spot quotations for PERU and TOLU BALSAMS are lower. Supplies of Portuguese ERGOT on spot are now difficult to find. IPECACUANHA is a little firmer; Nicaraguan for shipment is offering at 20s. per lb., c.i.f. MENTHOL is a steady market. QUASSIA and QUILLAIA are lower in price. There has been little interest in SENEGA and spot prices have further declined; shipment business is at a standstill. 309 packages of Tanganyika CINCHONA BARK are to be offered for sale by auction on September 22 at 11.30 a.m. at 20 Eastcheap, London, E.C.3.

Trade in ESSENTIAL OILS remains disappointing. There are now good stocks of ANISE OIL on the spot and the lack of demand is tending to depress prices; shipment prices are down to 5s. per lb., c.i.f. Reductions are also noted in spot quotations for BAY, LIME and PINE OILS. LAVENDER, LAVANDIN and PENNYROYAL are easier forward. Demand for SYNTHETICS and ISOLATES has been fair in recent weeks; prices are, in many instances, lower than the level of a month ago.

## U.S. Drug and Chemical Report

**New York, September 3**

No outstanding developments were reported on the PHARMACEUTICAL and FINE CHEMICALS market last week, although price movements were noted in MENTHOL and PODOPHYLLIN; despite the fact that the major menthol consuming season is approaching, quotations declined five cents per lb. to $9.15 and it was understood that a large order might cause further shading of this figure. More Japanese and Chinese material is expected to arrive before the end of September. The exhaustion current stocks of COD-LIVER OIL is expect to see an increase in dealers' selli schedules in line with higher shipping cos named at foreign sources of supply. T CRUDE DRUGS market remains dormant b trade circles warn that consumers, comi to the end of their stocks, will find suppli exceedingly scarce when they re-enter t market and that sharp rises in prices a likely. Domestic collections have be very poor owing to lack of labour. Buye are still refusing to consider CARNAU WAX at the new minimum prices fixed the Brazilian Government; a much great interest in substitutes and synthetics likely to follow the establishment of t higher prices. Consumers point out th purchases of No. 3 NC had been made as low as 59 cents per lb. before the ne law, which established a minimum of 7 cents for this grade.

Greater buying interest is reported fro the ESSENTIAL OILS market than for se eral months; the beverage trade has bee prominent in the market as a result of t recent hot weather, while pharmaceutic and toilet goods manufacturers are reporte to have been seeking additional supplie A firmer price trend is predicted by som trade circles. AROMATIC CHEMICALS a reported in generally good supply thoug certain basic materials remain short.

## Pharmaceutical Chemicals

AMIDOPYRINE.—Prices are from 50s. t 60s. per lb., as to quantity.

AMMONIUM CHLORIDE, B.P. — Make quote 1-cwt. lots at 9½d. per lb.

ATROPINE.—Makers' rates per oz. are ALKALOID, 41s. 3d.; 4-oz., 40s. 9d.: 25-oz 40s. 3d. SULPHATE, 32s. 9d; 4-oz 32s. 3d.; 25-oz., 31s. 9d.

BENZOIC ACID.—A good inquiry reporte Makers' quotations are 2s. 6d. to 2s. 9d per lb. for B.P., with technical grade 2s. 5d. to 2s. 7d. SODIUM BENZOATE, 2s. 5d to 2s. 8d.

BORAX.—Makers' current prices are B.P. quality, granulated, £38 per ton crystal, £39; powder, £39 10s. Commercia grades, £8 per ton less. Packed in 1-cwt bags, delivered carriage paid in Great Brit ain in 1-ton lots and upwards. Terms quoted do not apply to Northern Ireland.

ETHER.—Makers' prices per lb. are: ANÆSTHETIC, 1 cwt., 2s. 10d.; 72-lb., 2s. 11½d. B.P., 5 cwt., 2s. 1½d; less, 2s. 3½d. TECHNICAL, 1½d. per lb. less than B.P. The foregoing rates are for ether packed in winchesters. In 1-lb. bottles prices are 2½d. per lb. more.

BUTYL CHLORAL HYDRATE. — Current prices are from 17s. 6d. per lb. upwards.

CAFFEINE.—Makers' prices per lb. are: ALKALOID, anhydrous, from 34s. 6d. to 39s. 6d., and B.P. from 32s. 6d. to 37s. 6d. CITRATE, B.P.C., 21s. to 26s.; SODIUM BENZOATE, B.P., 21s. 6s. to 26s. 6d.; SODIUM SALICYLATE, B.P.C., 22s. 3d. to 27s. 3d.; SODIUM IODIDE, 26s. to 30s. Assorted contracts may be booked (excluding caffeine sodium iodide) for not less than 5-cwt. lots over six months. Containers: 14-lb. tins and upwards free; 1-cwt. kegs or cases, free for export, home trade charged extra (returnable). Carriage paid on net invoice value of £20 or more.

COCAINE.—Rates per oz. are as follows: ALKALOID, CITRATE, and SALICYLATE, bottles, ⅛-oz., 63s.; ¼-oz., 59s. 6d.: ½-oz., 56s. 6d.; 1-oz., 55s. 6d.; 4-oz., 55s.; 8-oz., 54s. 3d.; 16-oz., 53s. 9d.: tins, 5-oz., 53s. HYDROCHLORIDE, NITRATE and SULPHATE, bottles, ⅛-oz., 56s.; ¼-oz., 52s. 6d.; ½-oz., 50s.; 1-oz., 48s. 6d.; 4-oz., 48s.; 8-oz., 47s. 3d.; 16-oz., 46s. 9d.; tins, 5-oz., 46s. The quotations include cost of containers.

DIGITALIN, B.P.C.—Current quotations are from 9s. to 11s. 6d. per gm.

EMETINE.—Makers' rates per oz. are as follows: HYDROCHLORIDE, 1 oz., 87s.; 4 oz., 80s.; 16 oz., 177s. 6d.; 32 oz., 175s. BISMUTH IODIDE, 1 oz., 101s. 6d.; 4 oz., 100s.; 16 oz., 98s. 6d.; 32 oz., 97s.

HOMATROPINE.—Makers' prices per oz. are as follows (prices per gm. in brackets): ALKALOID.—1 oz., 97s. 6d.; 4 oz., 92s. 6d.; 16 oz., 87s. 6d. (4s.). HYDROCHLORIDE, HYDROBROMIDE and SULPHATE.—1 oz., 75s.; 4 oz., 70s.; 16 oz., 65s. (3s. 2d.).

ISOPROPYL ALCOHOL. — Makers quote 25s. 3d. per gall. for small lots.

MAGNESIUM TRISILICATE (B.P.).—Prices (per lb.) in the home trade are unchanged. Containers in brackets. 28 lb. to 1 cwt., 4s. 4d. (1-lb.); 4s. 3d. (2-lb.): 4s. 2½d. (4-lb.); 4s. 1½d. (7-lb.); 4s. 1d. (14-lb.); 3s. (28-lb.) per lb. Bulk quantities range from 3s. 2d. to 3s. 4d. per lb. in 28-lb. packages, as to quantity, carriage paid.

METHYL SALICYLATE.—Current rates are as follows: Winchester quarts, 2s. 2½d. per lb.; 56 lb., in demijohns, 2s. 1d.; 1 cwt., in demijohns or carboys, 2s. 0½d.; 5 cwt., 2s. All prices are net.

QUININE SULPHATE.—Supplies of salt complying with the B.P. 1948 monograph are available at from 4s. per oz. (for 1,000-oz.) up to 4s. 6d. for smaller quantities.

SODIUM ALGINATE.—Current rates per lb. are as follows: 7-lb. lots, 7s. 3d.; 28-lb., 6s.; 1-cwt., 6s. 6d.

SULPHANILAMIDE.—Prices are steady as follows: 5-cwt., 6s. 3d.; 1-cwt., 6s. 6d.: 28-lb., 6s. 10d.; 14-lb., 7s.; 7-lb., 7s. 9d. per lb., net; packing extra.

## Crude Drugs

ACONITE.—Indian is quoted unchanged at 300s. per cwt., spot; *Napellus* (0.435 per cent.), 4s. 3d., duty paid.

AGAR.—A moderate trade. Japanese strip, 16s. 6d. to 18s. 6d. per lb., duty paid; forward, 15s. to 16s., c.i.f. South African powder, in tins in cases, is available at 20s. per lb.

ALOES.—Cape, prime quality, spot, 130s. per cwt.; forward, 116s. to 120s., c.i.f., as to quality. Curaçao in boxes, 200s. to 220s. per cwt., as to quality; shipment, 200s., c.i.f. Socotrine, 160s. to 180s. per cwt., spot.

ARECA NUTS. — Ceylon is offering, ex warehouse, London, at 45s. per cwt.

ARNICA.—Spot quotations for flowers are 3s. per lb., duty paid.

ASAFETIDA. — Persian block is offered at from £15 to £24 per cwt., spot.

BALSAMS.—Spot quotations for *Canada* are from 18s. to 19s. per lb. Pará *Copaiba* (soluble) is offered at 4s. 9d. to 5s. per lb., spot; Maranham is available at 6s. 6d. San Salvador, *Peru* is quoted at from 4s. 9d. to 5s. 3d. per lb., duty paid. *Tolu*, from 16s. per lb., spot.

BENZOIN.—Sumatra block on the spot is from £15 to £17 per cwt., as to quality; Siam, to arrive, is offered at £120 per cwt.

BUCHU.—Short rounds on spot are quoted at 3s. 11d. per lb., shipment, 3s. 8d., c.i.f.

CALABAR BEANS.—Parcels are offered at about 10½d. per lb., spot.

CAMPHOR.—Chinese tablets steady at from 9s. 9d. per lb., duty paid; refined powder (B.P.), 8s. to 8s. 6d., with B.B. grade, 7s. 6d.; crude powder, 6s. 6d.

CANTHARIDES.—A fair inquiry reported. Spot quotations are unchanged at 8s. 9d. per lb., duty paid; for shipment, 5s., c.i.f.

CARDAMOMS.—A moderate trade is being done. Mangalore half-bleached A's, 9s., nominal, spot; B's, 8s., seeds, 7s. 9d. Aleppy seeds, 9s., spot; 8s. 9d. to 9s., c.i.f., per lb. Aleppy greens, 7s., spot; 6s. 9d., c.i.f. Ceylon seeds, 7s. 9d. per lb.

CASCARA SAGRADA.—A dull market. Bark on the spot is offered from 200s. per cwt.; new-crop, forward, is at about 190s., duty paid value.

CASCARILLA.—Inquiry continues to be negligible. Quills, 1s. 6d. to 1s. 7d. per lb., spot, siftings, 1s. 5d. to 1s. 6d.

CASSIA PODS (*C. fistula*).—East Indian, 65s. per cwt., ex wharf.

CHAULMOOGRA.—*Hydnocarpus* on spot is quoted at 1s. 9d. per lb.

CINNAMON. — Ceylon, spot, 0000, 3s.; 000, 2s. 10d.; 00, 2s. 8d.; 0, 2s. 6d.; firsts, 2s.; seconds, 1s. 11d.; thirds, 1s. 10d.; fourths, 1s. 9d.; quillings, 1s. 5d.; featherings, 1s.; chips, 6d. per lb.

COCHINEAL.—Quiet. Silver greys, steady at 4s. 3d. per lb. spot, blacks, 4s. 6d.

COLCHICUM.—Corms on the spot, offered at 7s. 6d. to 8s. 6d. per lb.

COLOCYNTH.—White pulp, seedless, is quoted at 2s. per lb.

DIGITALIS.—Market quiet. Portuguese leaves quoted at about 150s. per cwt., spot; English, from 2s. 6d. per lb.

ELEMI.—Manila No. 1 on the spot is quoted 2s. 3d. per lb.

EPHEDRA.—Herb is offered at 67s. 6d. per cwt., ex wharf.

ERGOT.—Portugal on spot is nominal at 4s. 5d. per lb.; forward, 4s. 6d., c.i.f. Russian, 4s. 6d. per lb., spot.

FRANGULA.—A parcel of bark is offering at 190s. per cwt., spot London.

GENTIAN.—French natural root is offered at from 60s. to 62s. 6d. per cwt., spot; sliced root is available at 75s.

GINGER.—Quiet. African on spot is quoted at 75s. per lb.; new-crop, September-October, 73s., c.i.f. Jamaica No. 1 quoted up to 125s.; No. 2, 117s. 6d.; No. 3, 115s. per cwt., spot.

GUAIACUM RESIN.—Steady. Quotations for lump are from 2s. 6d. per lb., spot.

GUM ACACIA.—Kordofan cleaned sorts. 65s. per cwt., ex store, London; shipment, September, 60s., c.i.f. Bleached No. 1, 135s., ex store; to arrive, 120s., c.i.f. Talha, 45s., ex warehouse; 40s. 6d., c.i.f.

IPECACUANHA.—The spot market is a little firmer; business has been moderate; Nicaraguan is offered at from 24s. to 25s. per lb.; shipment, 20s., c.i.f.

JALAP. — Vera Cruz, spot, 3s. 5d. to 3s. 9d. per lb., as to test (15 to 17 per cent. resin). Brazilian (13 per cent.), 1s. 6d.

JABORANDI.—Parcels on the spot are offered at from 70s. to 75s. per cwt., as to seller.

KAMALA.—Parcels are offered at 2s. 6d. per lb., spot.

LIQUORICE.—Quiet and steady. Anatolian natural, spot, from 47s. to 50s. per cwt., as to holder; Syrian, 42s. 6d. Italian block, 375s. per cwt., spot; Italian stick, from £385 to £525 per ton, as to quantity and grade; small-size stick continues in fair demand. Turkish block, from 240s. per cwt.; Syrian block, to come forward, 40% duty paid.

MACE.—West Indian blade, spot, 7s.; pickings, 4s. 6d. to 5s. 6d. per lb., according to quality.

MYRRH.—Aden sorts, £12 to £14 per cwt.; siftings, £6 10s. to £7 per cwt., spot.

OLIBANUM. — Fair to good drop, from 200s.; pea size, 200s.; good garblings, 160s.; seeds, 170s.; siftings, 90s. per cwt.

ORANGE PEEL.—Spanish quarters, 1s. 2d. to 1s. 5d., spot; sweet ribbon, 1s. 9d.; bitter ribbon, Seville, 1s. 1d. per lb.

QUASSIA.—Spot quotations for chips ar lower at 35s. per cwt.

QUILLAIA.—Natural bark, 92s. 6d. pe cwt., spot; cut is offered at 125s., an crushed at 120s.

RHUBARB.—Spot. Chinese rough-roun good pinky fracture, 4s. 3d. to 4s. 9d. pe lb., according to seller; wormy, 2s. 6d. t 3s. Rhapontic is offered at 1s. per lb.

SEEDS.—Prices of ANISE are unchange Cyprus, 1s. 6d. per lb., and Turkish, 1s. 5 per lb., duty paid, spot London. CARAWA —Owing to lack of business, Dutch no quoted at 105s. per cwt., duty paid in Lor don. CELERY.—Indian, spot London, i offered at 1s. 2d. per lb. CORIANDER.— Argentine, spot London, in poor demand a 42s. 6d. per cwt., duty paid; Morocco new crop, now afloat, quoted at 40s. per cwt landed, duty paid. CUMIN.—Indian quote at 205s. per cwt., ex store Liverpool Cyprus, now afloat, offered at 212s. 6d. pe cwt., landed London. DILL.—Indian, spo London, is quiet and unchanged at 47s. 6 per cwt.; 46s. 6d. per cwt. quoted in Live pool. FENNEL.—Indian is slow of sale o spot, 72s. 6d. quoted in London, and 70s per cwt., ex store Liverpool. FENUGREEK —Market remains firm on spot. Indian i quoted at 57s. 6d. per cwt., ex wharf Lor don or Liverpool.

SENEGA.—Parcels of root on the spo are offered at from 9s. 6d. to 10s. per lb Business continues slow.

SHELLAC.—Spot quotations, ex Londo warehouse, are: F.O.T.N. pure, 335s. F.O. Standard 1, 345s.; fine orange, 355s to 395s. per cwt.

STROPHANTHUS.—100 per cent. *Kombé* i offering at 11s. per lb., spot; *gratus*, i drums, is quoted at 15s. per lb.

TONKA BEANS.—Quotations are keepin steady at 5s. 9d. per lb. for well-froste Pará; poorly frosted, about 5s. 6d.

UVÆ URSI.—A parcel of leaves is quote at 85s. per cwt., duty paid, ex wharf Lon don.

VALERIAN.—Belgian root on spot i quoted at 170s. per cwt.

WAXES.—A moderate trade with som products easier. BEES'.—Dar-es-Salaam i cheaper at 320s. per cwt., spot; shipment 290s. Lindi, spot, 315s.; shipment, 285s per cwt., c.i.f. Benguela, in bond, 310s. shipment, 300s. per cwt., c.i.f. CANDE LILLA.—Easier. Spot quotations are a 380s.; shipment, 370s., c.i.f. CARNAUBA.— Prime yellow, on spot, 725s.; shipment firm at 700s. per cwt., c.i.f. Fatty grey o spot is offered at 470s.; shipment, 470s. pe cwt., c.i.f. Chalky grey, 465s., spot; 450s per cwt., c.i.f. MONTAN.—Reibeck, 300s. spot; Czechoslovak crude, 275s. per cwt OURICURI.—Scarce on spot and no offer for shipment from Brazil. 1 per cent. 430s.; 4.7 per cent., 420s. per cwt. SPER MACETI.—Spot, 3s. 1½d. per lb.

## Essential and Expressed Oils

ANISE.—Easier. Chinese star, in drums, s offered at 5s. 3d. with up to 6s. for small uantities; shipment, 5s., c.i.f.

BAY.—West Indian is offered at 7s. to s. per lb., on the spot.

CAMPHOR.—White oil on the spot is uoted at 2s. 9d. per lb., duty paid.

CARAWAY.—English-distilled is offering at 7s. to 40s.; imported, 28s. to 30s. per lb.

CASSIA.—Prices range from 12s. 6d. to 5s. per lb., spot.

CINNAMON.—B.P. oil, 60s. to 70s. per b. Bark oil is available at 12s. per oz. Leaf oil, on the spot, 7s. to 9s. per lb.

CITRONELLA.—Ceylon is quoted at 3s. 7d. er lb., spot, and 3s. 3d., c.i.f. Java on pot, 8s. to 8s. 3d. per lb.; 5s. 11d., c.i.f.

CLOVE.—Quotations for English-distilled ud oil are at from 10s. 6d. to 12s. per lb. ccording to quantity.

CORIANDER.—English-distilled is quoted t 260s. per lb.

CUBEBS.—English-distilled is offered at 5s. per lb.

CUMIN.—English-distilled oil is quoted t 75s. per lb.

DILL.—Prices of English-distilled oil are round 75s. per lb.

EUCALYPTUS.—70-75 per cent. (B.P.), 4s. er lb. for drums, and up to 5s. 6d. for maller quantities; 3s. 8d., c.i.f.

LIME.—Spot is offered at from 26s. to 8s. per lb., according to quantity.

OLIVE.—Importers' price is 29s. 8d. per all. of 9 lb. Wholesalers' prices are: 1 int, 5s. 6d.; 2 pints, 10s.; ½ gall., 19s.; gall., 37s. 6d.

PINE.—*Pumilionis* is quoted at 17s. to 8s. per lb., spot; *sylvestris*, 9s. 6d. to 1s. 6d.

SASSAFRAS.—Dealers are asking 6s. to s. per lb.

## World Mineral Industries

### No. 14—Phosphates

HE following table gives principal producers of uperphosphates and their output (in long tons).

| PRODUCING COUNTRY | 1938 | 1941 | 1944 |
|---|---|---|---|
| Jnited Kingdom | 424,800 | 648,000 | 859,200 |
| ustralia ... | 1,244,038 | 890,428 | 543,690 |
| Jew Zealand | 408,693 | 338,046 | 361,013 |
| rance ... | 1,154,060 | 266,145 | 5,286 |
| ermany ... | (e)1,100,000 | 60,177 | 13,340 |
| Jetherlands ... | 560,850 | 15,831 | — |
| J.S.S.R. (e) | 1,693,000 | 1,000,000 | 1,000,000 |
| Jnited States | 3,575,700 | 4,736,634 | 6,644,597 |
| apan ... | 1,220,000 | 1,231,000 | 110,000 |
| taly ... ... | 1,383,558 | 1,089,000 | (e)25,000 |
| Vorld's Total | 15,859,906 | 11,666,596 | 11,327,088 |

(e) Estimated.

(*By courtesy of the Imperial Institute.*)

## Synthetics and Isolates

QUOTATIONS are per lb. and vary according to grade, quantity and seller.

ACETOPHENONE.—10s. 6d. AMYL ACETATE.—2s. 9d. AMYL BENZOATE.—5s. 3d. to 6s. AMYL BUTYRATE.—5s. 6d. to 6s. 6d. AMYL PHENYLACETATE.—7s. 6d. to 8s. AMYL SALICYLATE.—3s. 3d. to 4s. 6d. AMYL CINNAMIC ALDEHYDE.—15s. to 16s. 6d. ANETHOLE.—11s. 6d. to 12s. 6d. ANISIC ALCOHOL.—65s. to 90s. ANISIC ALDEHYDE.—Ex paracresol, 22s. 6d.; perfumery grade, 25s. to 27s. 6d.

BENZALDEHYDE.—4s. to 5s., according to quantity. BENZOPHENONE.—11s. to 12s. BENZYL ALCOHOL.—Perfumers', 3s. to 4s. BENZYL ACETATE.—3s. to 4s. BENZYL BENZOATE.—Perfumers', 4s. 9d. to 5s. 9d. BENZYL CINNAMATE.—12s. 6d. BENZYL ISOEUGENOL.—30s. to 35s. BENZYL PROPIONATE.—7s. to 8s. 6d. BENZYL SALICYLATE.—7s. to 8s. 6d. BENZYL SUCCINATE.—20s. to 22s. 6d. BENZYLIDENE ACETONE.—15s. to 17s. BORNEOL.—10s. 6d. BORNYL ACETATE.—8s. 6d. to 9s. 6d. BROMSTYROL.—32s. 6d. to 35s. BUTYRIC ACID.—5s. 6d. to 6s. 6d.

CINNAMIC ALCOHOL.—17s. to 18s. CINNAMIC ALDEHYDE.—6s. 6d. to 7s. 6d. CINNAMYL ACETATE.—22s. 6d. CINNAMYL BUTYRATE.—27s. 6d. CITRAL.—15s. to 30s., according to grade. CITRONELLAL.—27s. 6d. CITRONELLOL.—Ex Ceylon, 25s.; ex Java, 27s. 6d. COUMARIN.—19s. to 20s.

DIETHYL PHTHALATE.—2s. to 2s. 6d. DIMETHYL BENZYL CARBINOL.—50s. DIMETHYL HYDROQUINONE.—37s. 6d. to 40s. DIPHENYL METHANE.—6s. 6d. to 7s. DIPHENYL OXIDE.—5s. 6d.

ETHYL BENZOATE.—5s. 3d. to 6s. ETHYL BUTYRATE.—6s. to 7s. ETHYL CINNAMATE.—12s. 6d. to 13s. ETHYL ŒNANTHATE.—18s. 6d. to 20s. ETHYL SALICYLATE.—5s. to 6s. ETHYL VANILLIN.—51s.

EUCALYPTOL.—9s. 3d. to 10s. 6d. EUGENOL.—14s. to 16s.

GERANIOL.—Ex Ceylon, 18s. 6d. to 20s.; ex Java, 25s. to 30s.; ex Palmarosa, 70s. to 72s. 6d. GERANYL ACETATE.—Ex Java, 25s. to 27s. 6d.

HELIOTROPINE.—20s. to 22s. 6d. HYDROXYCITRONELLAL.—Perfumers', 65s.; for soaps, 50s.

INDOLE.—17s. 6d. to 20s. (per oz.). IONONE.—100 per cent., 32s. 6d. to 34s. ISOBUTYL ACETATE.—2s. 6d. to 3s. 6d. ISOBUTYL BENZOATE.—5s. 6d. to 7s. ISOBUTYL SALICYLATE.—6s. to 7s. 6d. ISOEUGENOL.—17s. 6d. to 19s. 6d. LINALOL.—50s. to 52s. 6d. LINALYL ACETATE.—52s. 6d. to 55s.

METHYL ACETOPHENONE.—12s. 6d. to 14s. METHYL ANTHRANILATE.—15s. to 16s. METHYL BENZOATE.—5s. 3d. to 6s. 6d. METHYL CINNAMATE.—12s. 6d. to 14s. METHYL PHENYLACETATE.—7s. 6d. to 8s. 6d. METHYL HEPTIN CARBONATE.—285s. METHYL IONONE.—37s. 6d. to 40s. MUSK KETONE.—55s. MUSK XYLOL.—8s. 6d. to 10s. 6d. MUSTARD OIL (artificial).—16s. 6d. to 18s.

NEROLIN BROMELIA.—17s. 6d. NEROLIN YARA YARA.—9s. 6d. to 10s. 6d.

PARACRESYL ACETATE.—8s. 6d. to 9s. 6d. PARACRESYL PHENYLACETATE.—10s. 6d. to 11s. PHENYLACETALDEHYDE.—80s. PHENYLACETIC ACID.—6s. 6d. to 8s. 6d. PHENYLETHYL ALCOHOL.—21s. 6d. to 23s. 6d. PHENYLPROPYL ALCOHOL.—25s.

SAFROLE.—10s. 6d. SANTALOL.—100s. to 120s. STYROLYLENE ACETATE.—10s. 6d. to 11s. 6d.

TERPINEOL (perfumers').—3s. 6d. to 5s. TERPINYL ACETATE.—9s. 6d. to 10s. 6d.

VETIVEROL.—265s. VETIVERYL ACETATE.—300s.

# TRADE MARKS

(*From "The Trade Marks Journal," August* 25)

"AMFIX"; by May & Baker, Ltd., Dagenham; B659,174. For chemical substances containing ammonium for the preparation of photographic solutions (1).

"LANNEX" on triangular device; by Lawrence & Hilton, Ltd., Blackpool; 659,426-27. For emulsifying agents (1).

"PRISTINOL"; by R. S. Hudson, Ltd., London, E.C.4; 662,941. For industrial chemicals (1). 662,777. For soaps (3).

"CALIXTE PARIS" on label device (letter "i" disclaimed); by Marguerite Selz, Paris; 649,825. For perfumes (3).

"YBRY"; by Ybry Inc., New York; 623,357. For perfumes, toilet preparations (except medicated toilet preparations), cosmetics and toilet powder compacts (3).

"MARLY" in distinctive lettering; by Marly Laboratory, Ltd., Aberystwyth; 649,387. "PURGATOIRE"; by J. P. Lorriaux, Paris; 650,196. "GLOTIME"; by Lennard Lee-Narvil & Co., Ltd., Hull; 653,256. "BONA-DEA"; by the Jane Richards Beauty Preparations, Bishopton, Renfrews; 657,673. "SURANOX"; by Milton Antiseptic, Ltd., London, N.7; 659,646. "TELBAT"; by Three Crowns Tablet Co., Hull; 659,719. "LUCENE"; by Kem Laboratories, Ltd., Bradford; 660,107. "MOI-MEME"; by L. G. Colomb & Co., Ltd., London, W.C.2; 661,785. "STRATEGY"; by Mary Chess, Ltd., London, N.W.1; 662,445. For non-medicated toilet preparations (3).

"CLOVEAN"; by Associated Phosphate Manufacturers, Ltd., Luton; 656,816. "SULPATOL"; by Herbert Ferryman, Ltd., Southampton; 661,904. "AIROFOAM"; by Koray, Ltd., London, W.1; 661,908. For detergents (3).

"SAVVY"; by Ashe Laboratories, Ltd., London, S.W.1; 661,812. For all goods (3).

"GRAND SIECLE"; by Le Compagnie des Cosmetiques Grand Siècle, Ltd., Harrow; 661,881. For cosmetics (other than toilet preparations) (3).

"AMACRIN"; by George Wright Taylor, Moortown; 671,329. For hair preparations (3).

"LEONA"; by Leona, Ltd., Blackheath, nr. Birmingham; 645,654. For pharmaceutical preparations for human use, and veterinary ointments (5).

"CONSORT"; by Thomas Lynch Smith, Barrhead, Renfrews; 655,810. "PROMPTOLAX"; by George Erényi, Budapest; B661,492. For laxatives (5).

"CAMILATONE"; by Camilatone, Ltd., London, N.W.9; 656,059. For medicated preparations for the treatment of the skin and scalp (5).

"CRUZON"; by Imperial Chemical (Pharmaceuticals), Ltd., Slough; 657,645. For trypanocides (5).

"DELTAVAX"; by Bayer Products, Ltd., London, W.C.2; 657,685. For veterinary products (other than in tablet form) (5).

"FIBROCAST"; by T. J. Smith & Nephew, Ltd., Hull; B657,726. For bandages and surgical dressings, etc. (5).

"CEL-U-ROL"; by Johnson & Johnson (Gt. Britain), Ltd., Slough; 658,145. For cellulose wadding (5).

"CETACIDE" and "CETADEX"; by Imperial Chemical (Pharmaceuticals), Ltd., Slough 661,364-65. For all goods (5).

"WINALGIN"; by Bayer Products, Ltd., London W.C.2; 660,237. For pharmaceutical preparations and substances for veterinary use (5).

Device of hand; by the Crookes Laboratories Ltd., London, N.W.10; 659,186. For pharmaceutical preparations in capsule form (5).

"INTRACILLIN"; by William R. Warner & Co Ltd., London, W.4; 661,045. For pharmaceutical preparations being suspensions of penicilli in oil with other ingredients (5).

# COMING EVENTS

## Tuesday, September 14

REIGATE AND REDHILL PHARMACISTS' ASSOCIATIO Castle Hotel, Reigate, at 7.30 p.m. Mr. S. T Marsh, M.P.S. (Glaxo Laboratories, Ltd.), o "The Scope of Research on Pharmaceuticals."

## Wednesday, September 15

MANCHESTER PHARMACEUTICAL GOLFING SOCIET Competition at Ashton-under-Lyne Golf Club fo Kerfoot trophy and prize.

## Thursday, September 16

DUBLIN COLLEGE OF PHARMACY, GAELIC ATHLETI CLUB, Jury's Hotel, Dublin, at 8 p.m. Annu meeting.

THAMES VALLEY PHARMACISTS' ASSOCIATION arranging a visit by coach to the Chemists' Exhibi tion, Central Hall, Westminster, London, S.W.1, o September 22, leaving Kingston railway station a 2.45 p.m. and Richmond railway station at 3 p.m Applications for tickets (2s. 9d. each, includin tea) should be sent before September 15 to M Leonard Higgs, 42 Richmond Road, Kingston-on Thames (Telephone: Kingston 2440).

# FIFTY YEARS AGO

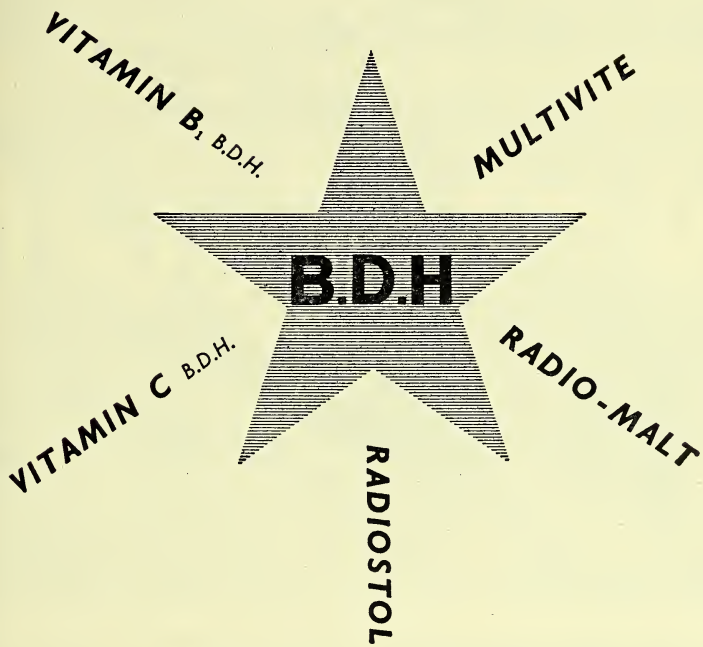
## The B.P. in Canada

(*From the C. & D., September* 10, 1898)

CANADIAN medical men take the nev British Pharmacopœia more seriously tha home practitioners, if we may judge fron their action at the recent meeting of th Canadian Pharmaceutical Association when Dr. T. D. Reed, of Montreal, rea a paper on the Pharmacopœia which h concluded with the following motion:—

Whereas, a revised edition of the British Pharmacopœia has been issued containing numerou and important changes; and whereas uncertaint exists as to the date when the British Pharmacopœia, 1898, is to be considered in force; Resolved, that the Canadian Medical Association, i annual meeting assembled, recommends that October 1, 1898, be taken as the date on and afte which, in the absence of instructions otherwise physicians' prescriptions should be compounde with the preparations of the B.P., 1898.

The motion was agreed to after a goo discussion. Dr. Roddick (ex-President o the British Medical Association) moved th appointment of [a] committee to impres the matter upon the attention of the Federal authorities.

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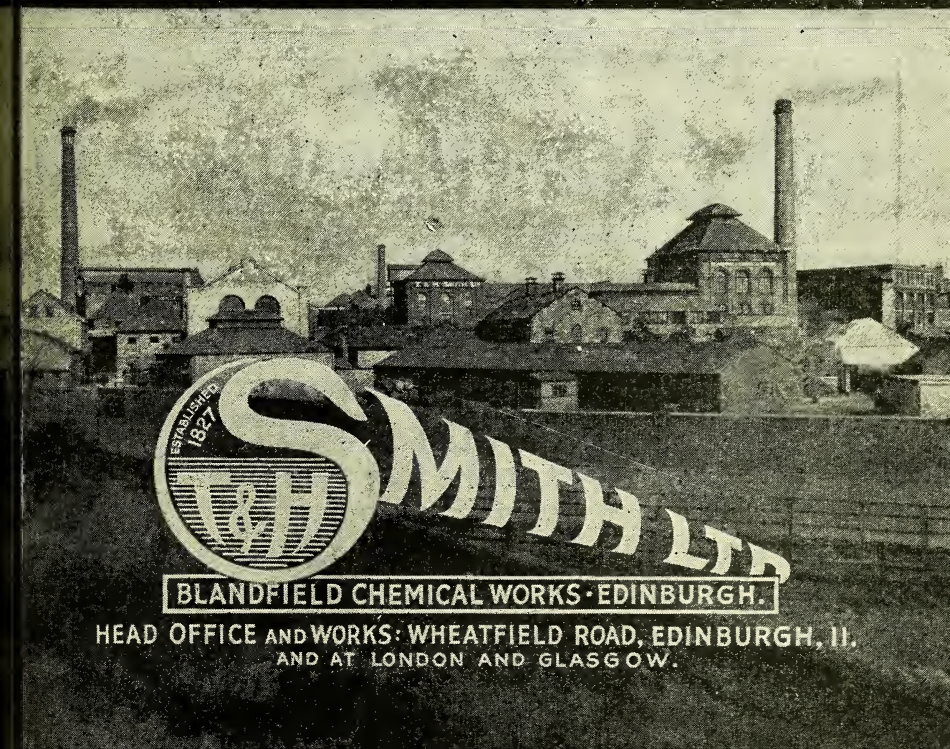


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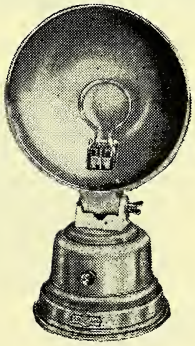

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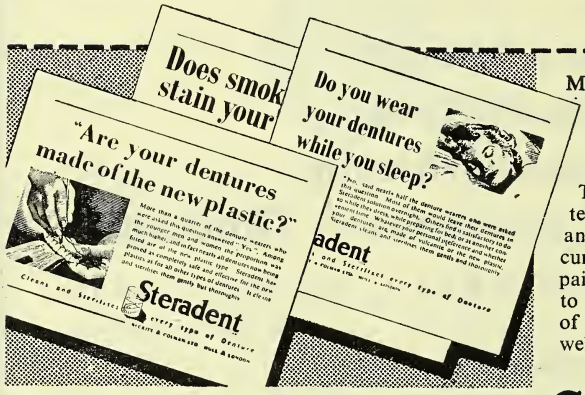


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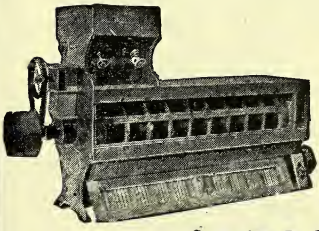

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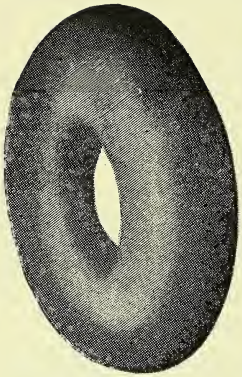

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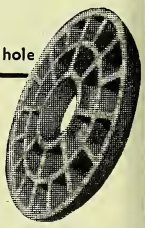

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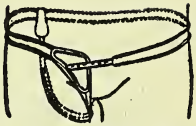

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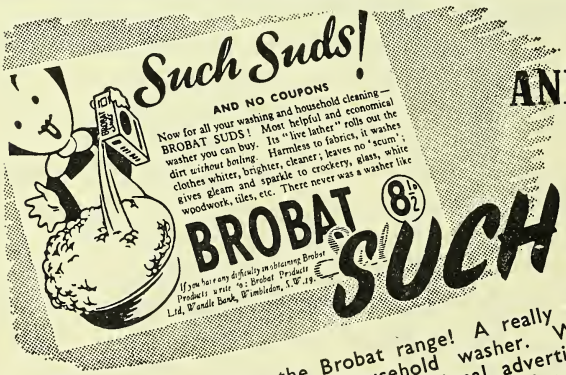


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You need stocks *now* to reap the full benefit of our 1948 Publicity Campaign.

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*Supplied direct, or through the wholesaler. Enquiries to :—*

**THE DABITOFF COMPANY,**
**96 Stoke Newington Church Street, London, N.16**
**TEL. CLISSOLD 0660.**

**AN ALL-BRITISH FIRM**

*have pleasure in announcing that :—*

# BRONCHOVYDRIN

*is back on the British Market.*

*Exempt from Purchase Tax*

**This Inhalant for the Treatment of Asthma is now Obtainable from the**

*Manufacturers and Sole Distributors :—*

**BRONCHOVYDRIN (1945) Ltd.**
**12 WESTWOOD ROAD, BARNES, S.W.13**

# F. H. STEELE & Co. Ltd.

*Manufacturing Chemists*

**BLACKROCK · DUBLIN**

*Now offer wide range of*

**MEDICATED PASTILLES LOZENGES · TABLETS CORDIALS & SQUASHES CHEWING GUM (including non-medicated) CHEMISTS' CONFECTIONERY AND TOILETRIES**

*Specially made and attractively packed for chemist trade only*

**All products of highest standard manufactured under ideal conditions**

EXPORT TRADE ENQUIRIES INVITED

*Phone:* Dublin 83610 *Grams:* 'Destel, Blackrock

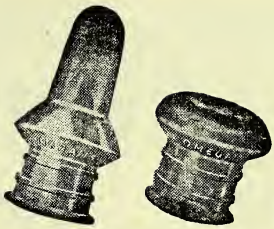
The "Omega"

TEAT & VALVE

REG. NOS. 841964, 841968

This Trade Mark guarantees the quality

Ingram's LONDON.



P.A.T.A.

Made by a special process which gives long life and produces a Teat with a perfect flow. The shape ensures a tight grip of the bottle.

J.G. INGRAM & SON, LTD.

The London India Rubber Works, HACKNEY WICK, E.9.

LATHER

THE NATIONAL DETERGENT IS NOW

GREATLY REDUCED IN PRICE

ITS HIGH QUALITY IS NOW

GUARANTEED

BY

The Good Housekeeping Institute of Great Britain

16 ozs. now 1/8d. 1 pint now 2/1d. NO BOTTLE CHARGES.

NEW ADVERTISING MATERIAL - GENEROUS PROFIT MARGINS - IMMEDIATE DELIVERY

WADDINGTON & MOULTON Ltd., 35 West Hill, S.W.18. Putney 3339

# Use "DUREX" Cellulose TAPE
(fully transparent and in colours)
## FOR ALL YOUR PACKAGING JOBS

**The Perfect Seal . . .** for packs of any shape o size. . . . No heat or moisture required—simply apply with light finge pressure and it sticks. "DUREX" Cellulose TAPE is the most satisfactor closure for the moisture-proof type of cellulose film. . . . Write to-day fo full details and prices.

*Transparent and in colours in rolls 72 yds. (2,592 ins.) long and in a range of widths.*

# "DUREX" Cellulose TAPE

DUREX ABRASIVES LTD., ARDEN RD., ADDERLEY PARK, BIRMINGHAM, 8

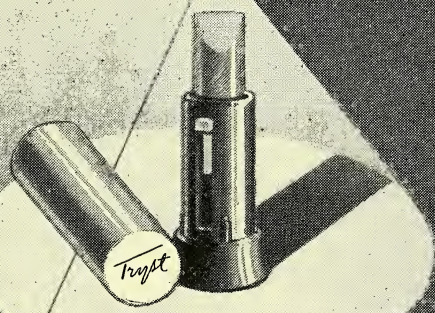

B.B.T.

SPOTLIGHT ON....

The new "JUNIOR" Lipstick

★ 6 SPARKLING NEW COLOURS

ROYAL
RED WINE
DAMASK ROSE
PAGEANT RED
PINK TULIP
FATAL APPLE

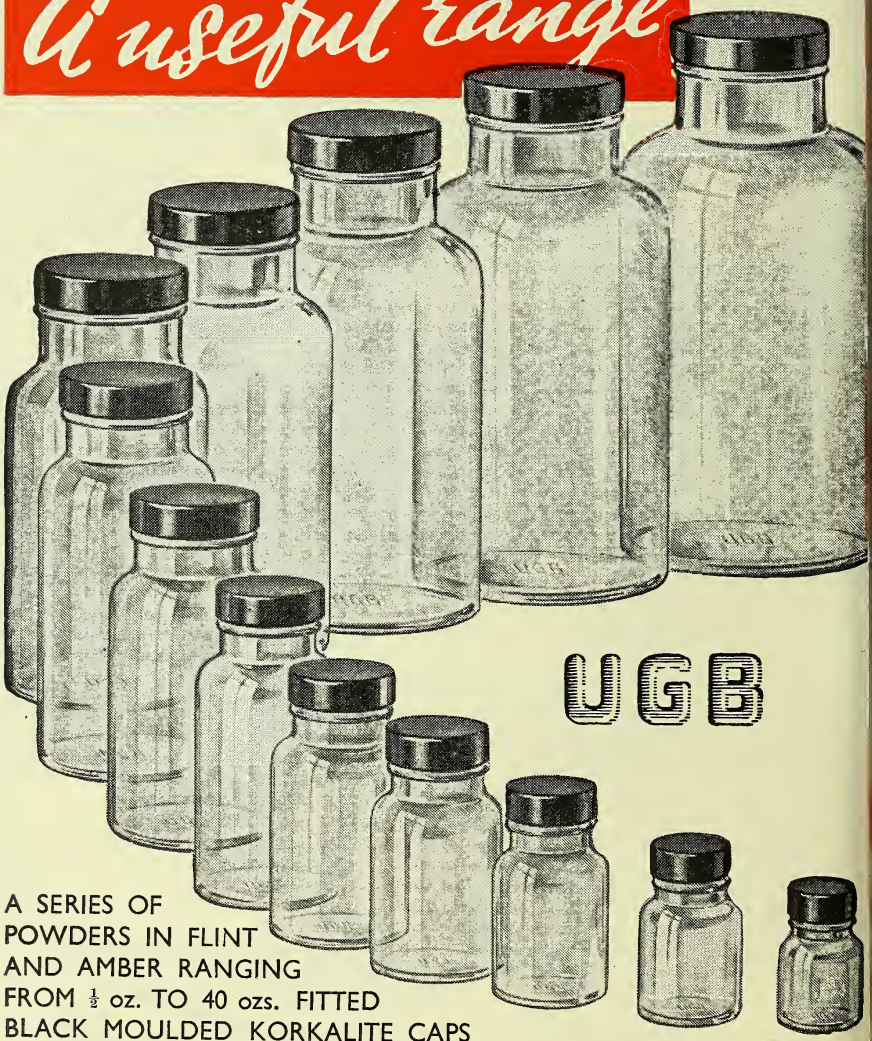



2/6
INC. TAX

☆ All for immediate supply.... plus the lovely standard Shades in the Tryst Range

Tryst ★
of REGENT STREET

# A useful range

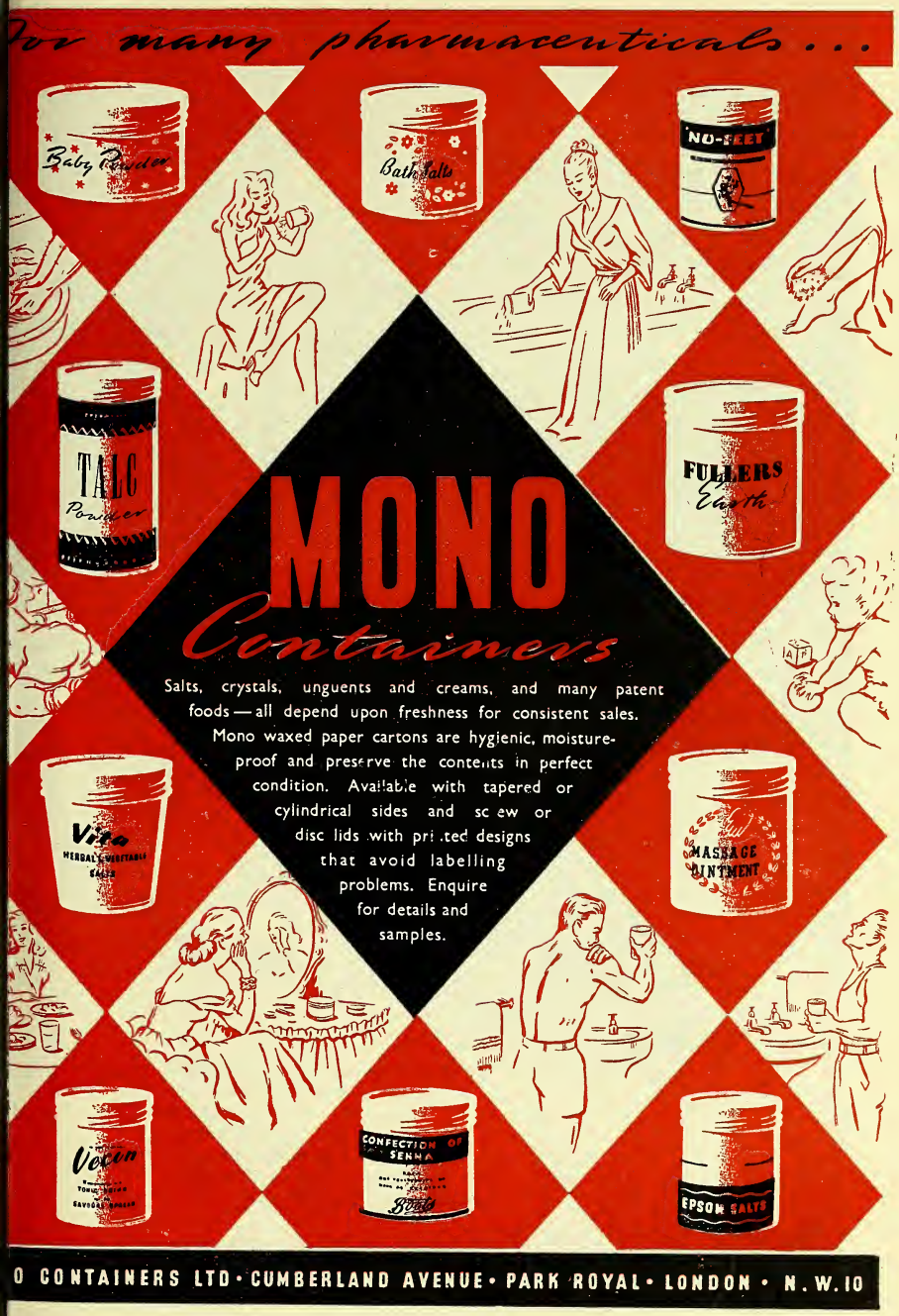



A SERIES OF POWDERS IN FLINT AND AMBER RANGING FROM ½ oz. TO 40 ozs. FITTED BLACK MOULDED KORKALITE CAPS

## UNITED GLASS BOTTLE MANUFACTURERS LTD

**8 LEICESTER STREET, LONDON, W.C.2**

*Telephone:* **GERRARD 8611 (15 Lines)** *Telegrams:* **UNGLABOMAN, LESQUARE, LONDON**

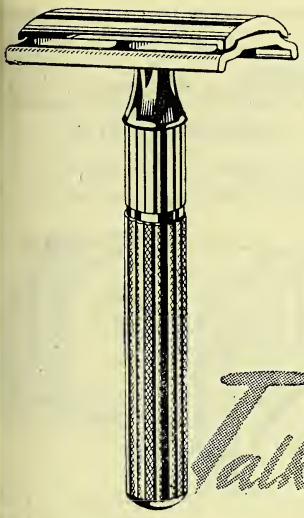

For many pharmaceuticals . . .
Baby Powder
Bath Salts
NO-SEET
TALC Powder
FULLERS Earth
MONO
Containers
Salts, crystals, unguents and creams, and many patent foods — all depend upon freshness for consistent sales. Mono waxed paper cartons are hygienic, moisture-proof and preserve the contents in perfect condition. Available with tapered or cylindrical sides and screw or disc lids with printed designs that avoid labelling problems. Enquire for details and samples.
Vita
MASSAGE OINTMENT
Vocon
CONFECTION OF SENNA
EPSON SALTS
O CONTAINERS LTD · CUMBERLAND AVENUE · PARK ROYAL · LONDON · N.W.10

*Infants Feeding Bottles -*
*Upright & Double-ended*

**another W product**

*The double-ended Feeder is supplied spare, or packed in carton with Teat, Valve and Brush, the Upright Feeder, spare only. Our quality and workmanship is unrivalled, having specialised in the production of Feeding Bottles for over 100 years.*

**WOOD BROTHERS** GLASS CO LTD OF BARNSLEY IN YORKSHIRE



*Talking of precision*

Gillette advertisements have been reminding the public that . . . when a razor grows old and worn, shaving is bound to suffer . . . Gillette razors and blades are precision instruments working in close partnership for perfect shaving . . . with Gillette razors once again plentiful, the public has been told "now is the time to buy a new one and enjoy the perfection that modern precision-shaving offers."

**See that your stocks of Gillette are adequate. With the solid, continuous backing of Gillette advertising behind you, make the most of this great opportunity to . . .**

*Sell more*

# Gillette Razors

Gillette Industries Limited, Great West Road
Isleworth, Middlesex

**BANKS OFFER**

# New Service

Your Bank is ready and willing to help you to invest your money in National Savings Certificates. All you have to do is to sign a Banker's Order form, either for a single block of National Savings Certificates, or for a steady month-by-month amount. Your Bank will do the rest without trouble to you, and without charging for their services.

Remember, that with Income Tax at 9/-, the new National Savings 10/- Certificates, when held for 10 years, are the equivalent of a taxable investment yielding £4 16s. 8d. per cent. If you are paying more than 9/- in the £ they are even more attractive. Savings Certificates are a profitable gilt-edged investment and you can now hold 1,000 units of the new issue in addition to permitted existing holdings of Certificates of earlier issues. See your Bank Manager about it today.

**SAVE**—*The Bank Way*

*Issued by the National Savings Committee*

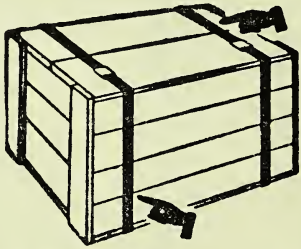
*USE :—*

*Wire Bands*

**BANDING SYSTEM**

*It's speedy! It's simple!!*

*Above all—It's Secure!!!*



THESE BANDS WILL ENSURE YOU GOODS ARE DELIVERED INTAC

*Wire Bands*

**114, LANCEFIELD STREET, LONDON, W.**

Ladbroke 0725

A DELICATE SUBJECT — FOR DELICATE SKINS

*The* **TOTTY-POT**

*Rubber Ringed for Cushion Comfort*

Trade Mark "Totty Pot" Patent-applied for

**A NON-CORROSIVE ACID-PROO HYGIENIC CHILD'S CHAMBE**

Detachable ring, easily removed f cleaning purposes

**Made of Aluminium**

ANODISED IN SOFT PASTEL SHADE

SOLE MANUFACTURERS

**J. BILLIG & SONS LTD.,**

ESTABLISHED 1899

BILTIN WORKS, FONTHILL Rd LONDON N.4.

TELEPHONE: ARCHWAY 2753 & 3858

*Meet us at*

**STAND 70, LOWER HALL**

*at the*

**CHEMISTS' EXHIBITION**

**CENTRAL HALL, WESTMINSTER S.W.1**

**SEPT 20-24**

PER CENTA
THE CONTAINER PEOPLE
(PERCENTA LTD.)

ERCENTA HOUSE, 130/2 TOOLEY STREET, LONDON, S.E.1
Phone: HOP 0516 (6 lines)

**ROLL FILMS**

These attractively boxed roll films are now available in steadily increasing quantities

ULLY GUARANTEED

*amped addressed envelope for full details :—*

*H. WALKDEN*
*6 Lakeside Avenue, Bolton, Lancs.*
*or direct to:—*
*Clarity (PHOTOGRAPHIC) Comp'y*
*4-36 St. ANN'S RD., LONDON, W.11*



DRUGS
GALENICALS
PILLS-TABLETS
PROPRIETARIES
CHEMICALS
APPARATUS

**CHEMISTS -**

**IF YOUR LOCATION IS**

**NORTH EAST-**

*Your Enquiries will be welcomed by:*

**MIDDLETON & CO. LTD.**
BOUNDARY ROAD
MIDDLESBROUGH

SPEEDY Delivery IN OUR OWN VANS WHEREVER POSSIBLE. Tel. 3207

# 92% of all cat powders sold are 'TIBS'

## *Market Survey shows Supremacy of 'TIBS'—and the Power of 'Tibs' Advertising*

**A market survey just completed in London and the South-East (covering approximately one-third of the population of Great Britain) revealed some interesting facts, on the buying habits of cat owners.**

When users of cat condition powders were asked which brand they were in the habit of buying, 92% gave 'Tibs' as the answer. This was confirmed by asking a representative group of retailers which brand of cat powder they found most popular among their customers. In this section of the survey 'Tibs' scored 93%.

### 'TIBS' ADVERTISING PULLS!

Cat owners were also asked to give the factors which first influenced them to buy 'Tibs', 47% replied that an advertisement was responsible for their first purchase.

The figure of 47% is a remarkable testimony to the effectiveness of 'Tibs' advertising, particularly in view of the widespread reluctance of the public to *admit* the influence of advertising.

### BRIGHT PROSPECTS FOR 'PREEN'

An earlier market survey revealed the surprising fact that *one in three cat owners* groom their cats regularly, and that the need for grooming is widely recognised. The potential market for a reliable dry-cleaning preparation for cats was indicated by replies to the question "What cleaning agent, if any, do you use when you groom your cat?". They included talcum powder, Vim, flour, vinegar.

Market prospects for PREEN—the new 'Tibs' dry-cleaning powder for cats—are therefore extremely good. PREEN comes in cylindrical cardboard containers attractively designed in meadow green, buttercup yellow and black. Display 'crowners' are supplied with every order. PREEN sells at **1/6d.**

*Bob Martin Ltd., Southport*

"Leda"
BRINGS MOST PROFIT TO Y

Ask yo
Wholesal
for "Ledc
Baby Powd
per 1/6 tin
INCLUDING PURCHASE T
Sole Agents for N. Ireland: Whyte Reid & Mitchell, 61/63 Donegall Pass, Belfast.
Sole Agents for Scotland: Southern Mfg. Co. Lt 214 West Regent Street, Glasgow, C.2.
Manufacturers:
LEDA CHEMICALS LTD., Ponders End, Mid

CACHETS "FINOT
17 Sizes to fit various types of machines
COOPER SON & Co.
120 Gloucester Ro
LONDON, S.W
Adapted for Headache, Neuralgia and other powders.

6-oz. Toilet Rolls. Reasonable deliv (½ gross rolls to one carton) 144/- per gr including P.T.
INTERSEAS PRODUCTS,
2, Middle Street, London, E.C.1
METropolitan 8322

MANOIDS
NEVROIDS
URICURE TABLETS
OCCASIONAL PILLS
THE ACTON PILL & TABLET Co. Ltd.
ASH VALE SURREY
and all Sundries Houses

# LOGICAL MBL PREPARATIONS

**QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY NTICAL WITH THAT OF PRE-WAR PREPARATION**

use of our heavy purchases immediately before war broke out. Our stocks still considerable and the high MBL standard will be fully maintained.

RE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS

| | Retail Prices (inclusive of Tax) | CHEMISTS' PRICE Per unit Net | + Purchase Tax | Per dozen Net | + Purchase Tax |
|---|---|---|---|---|---|
| **IPEOL** | | | | | |
| MENT 4 oz. tube ... ... ... | 7/5 | 4/2½ | + 1/5 | 50/5 | + 16/10 |
| 40 gr. „ ... ... ... | 3/8½ | 2/1½ | + 8½ | 25/3 | + 8/5 |
| 20 gr. „ ... ... ... | 2/1 | 1/2 | + 5 | 14/- | + 4/8 |
| ID 40 c.c. bottle ... ... | 3/8½ | 2/1½ | + 8½ | 25/3 | + 8/5 |
| **THALMO-ANTIPEOL** | | | | | |
| . Nozzled Tube ... ... ... ... | 3/8½ | 2/1½ | + 8½ | 25/3 | + 8/5 |
| . „ „ ... ... ... ... | 1/9 | 1/- | + 4 | 11/11 | + 4/- |
| **NO-ANTIPEOL** | | | | | |
| . Nozzled Tube ... ... ... ... | 3/1 | 1/9 | + 7 | 21/- | + 7/- |
| . „ „ ... ... ... ... | 1/9 | 1/- | + 4 | 11/11 | + 4/- |
| **EROFAGOS** | | | | | |
| of 50 ampoules ... ... ... ... | 19/- | 13/3½ | None | 159/7 | None |
| 10 „ ... ... ... ... | 4/3 | 3/- | None | 35/8 | None |
| 5 „ ... ... ... ... | 2/6 | 1/9 | None | 21/- | None |
| **ENSYL** | | | | | |
| f 500 tablets... ... ... ... ... | 43/- | 24/- | + 8/- | 288/- | + 96/- |
| of 50 „ ... ... ... ... ... | 4/11 | 2/8½ | + 11 | 32/4 | + 10/10 |
| **JAMES' BALM** | | | | | |
| of approx. 2½ oz. ... ... ... ... | 3/1½ | 1/11 | + 7½ | 22/6 | + 7/6 |
| „ 1 oz. ... ... ... ... | 1/7 | 11 | + 4 | 11/3 | + 3/9 |

Carriage paid on all orders of 1 dozen or £1 and over.
Terms: NETT, Monthly Account.

**DICO - BIOLOGICAL LABORATORIES LTD., LONDON, S.E.25**

# Jennings

FAMOUS FOR OVER 80 YEARS

## WHOOPING COUGH MIXTURE

*and for other dry coughs too!*

*Certain Relief — Certain Sales — Widely Advertised*

RETAILING AT 1/6

ALFRED FENNINGS, HORSHAM, SUSSEX.
(formerly of Cowes, I.O.W.)

## NEW BONUS OFFER

P.A.T.

# 6 Free jars of MUSTEROL

This year's Bonus Offer by Musterole consists of 1 to 6 full-size jars over and above your order. Your part is merely to display Musterole in its attractive new display outer and new pack for a minimum of 4 weeks.

Special display material has been prepared for this offer — display outers, window bills, and entirely re-designed, vividly effective cartons. In addition, Musterole is backed this season by a big, new Advertising Campaign — so take full advantage of this offer — send in your order NOW, to Thomas Christy Ltd., Farnha Surrey. Here are the detai

| | Chemist | Purchase Tax | Public | Profit | Credit for Display | To Pr |
|---|---|---|---|---|---|---|
| 1 Dozen | £1. 2. 9 | £0. 7. 7 | £1.18.0 | £0. 7. 8 | £0. 2. 0 | £0. |
| | (Equivalent to one pot FREE in 12) | | | | | |
| 1½ Dozen | £1.14.2 | £0.11.4 | £2.17.0 | £0.11.6 | £0.3.10 | £0.1 |
| | (Equivalent to 2 pots FREE in 18) | | | | | |
| 2 Dozen | £2. 5. 6 | £0.15.2 | £3.16.0 | £0.15.4 | £0. 5. 8 | £1. |
| | (Equivalent to 3 pots FREE in 24) | | | | | |
| 3 Dozen | £3. 8. 3 | £1. 2. 9 | £5.14.0 | £1. 3. 0 | £0. 7. 7 | £1.1 |
| | (Equivalent to 4 pots FREE in 36) | | | | | |
| 3½ Dozen | £3.19.8 | £1. 6. 7 | £6.13.0 | £1. 6. 9 | £0.11.5 | £1.1 |
| | (Equivalent to 6 pots FREE in 42) | | | | | |

THE WHOLE

FAMILY

ESPECIALLY THE CHILDREN

LOVE THE HONEY

IN

. . . and it's good for them. A formula you can positively approve . . . well-known for its quick soothing action . . . supported by responsible advertising reaching 20,000,000 readers . . . ***and of course 'Pineate' can be included with other I.C.C. lines to qualify for Co-operation Discounts of 12½% on orders of £10 and over; 10% on orders of £5 and over.***

Trade Terms: 13/9 per doz.
Pur. Tax 4/7 per doz.
Retail at 1/11 (*including tax*)

# Pineate
Trade Mark
HONEY
# Cough-Syrup

TERNATIONAL CHEMICAL CO. LTD., CHENIES STREET, LONDON, W.C.1

# NEW BOOKLET FOR RHEUMATIC SUFFERERS

This is an authoritative treatise on Rheumatic complaints written in language that the layman can easily understand. Copies are now being included in both the 5/6d. and 26/5d. size Curicones Cartons, and supplies are also available to chemists FREE on request.

Mention is being made of this booklet in our National Advertising and readers are invited to ask their chemist for a copy. Make sure you have a supply of these booklets on hand.

If you require one of these Curicones booklets at short notice to comply with a request from a customer, please take one from a CURICONES CARTON.

P.A.T.A.

**CURICONES**

STEPHEN MATTHEWS & CO. LTD.
19/21, Farringdon Street, E.C.4

**SO WILL THE PUBLIC!** This pos appearing throughout the season. Get in sto BRONTAN now! Be ready for a late season de

*BRONTAN Ltd., 1 Broad Street Buildings, Liverpool St.*
*'Phone: BISHopsgate 6383*

# NIPITS

*The Medicated Pastill*

**FOR VOICE, THROAT & CHES**

TEASDALE & CO. LTD., CARLIS

SURE-SELLING STOC

OVER 150 YEARS REPUTAT

**KEARSLEY**

THE ORIGINAL

**WIDOW WELCH'S P**

**9d. BOX PROFIT** by ordering 1 3/3½ size. Bonus box given on dozen (13). It pays to push thi

**C. & G. KEARSLEY**

71 Dartmouth Rd., London,
Est. 1787

# Blackcurrant syrup in modern therapy

Apart from its inherent virtues as a rich source of *natural* vitamin C, now increasingly recognised, Ribena Blackcurrant Syrup has a marked degree of acceptability by persons in many dietary categories.

The food foibles of the delicate child; the fickleness of palate of the pregnant woman are equally met by the palatability of Ribena. In more exacting cases, *e.g.*, patients with peptic ulcer, Ribena is tolerated in a measure that is pleasing to doctor and patient alike.

*Blackcurrant syrup is recommended as a vitamin C supplement in the Ministries of Food and Health publication "Diets for patients with ulcers of the stomach and duodenum."*

Ribena contains not less than 20 mg. ascorbic acid per fluid ounce together with the associated factors of the natural vitamin.

**Ribena**
**BLACKCURRANT SYRUP**

**You should be able to obtain enough Ribena to meet the needs of all your priority customers—expectant and nursing mothers, infants and invalids.**

**In case of any difficulty please write to us: H. W. Carter & Co. Ltd., The Old Refinery, Bristol, 2.**

✚ Stops

SCURF

Dr. Pagr-Barker's

Scurf & Dandruff Lotion

A Guarantee with every Bottle.

*Distributors to the Chemists' Trade—*

THOS. CHRISTY & CO. LTD.

FARNHAM, SURREY.

Trade 20/- doz.
Plus Tax ONE THIRD
Retail 3/4 P.A.T.A.

*Sole Manufacturers and Proprietors—*

ILEX SUPPLY CO., LTD. 252b GRAY'S INN ROAD, W.C.1

WILL PHARMACISTS KINDLY NOTE THAT THE FOLLOWING PREPARATIONS ARE AVAILABLE ON PRESCRIPTION, READY PACKED IN **6 oz.** BOTTLES

| | INCL. TAX |
|---|---|
| MIST. BRONCHIALIS ... | 2/- |
| ELIX. BROVAL ... ... | 2/- |
| CARMINAT ... ... | 2/- |
| NEURATONE ... ... | 2/- |
| SYROFANS ... ... | 2/- |
| TUSSIBROM ... ... | 2/- |
| TRIBROM FORTE ... | 2/- |
| PARIVITAN ... ... | 3/1 |
| PARATEX... ... ... | 2/6 |

SUBJECT TO 33⅓

*Physicians have been advised.*

GEDEON RICHTER (G.B.) LTD

Telephone : GUL 3478

BLAKEY'S MALTED OATMEAL

The food that **for over 50 years** has helped to build Britain's Bonniest Babies.
The ideal diet for nursing mothers & invalids.

**11D and 2/-**

BLAKEY'S FOOD CO. LTD., LINCOLN

# 'ASPRO' ACCELERATES BUSINESS

" More display means more sales, means more bonus—and so the wheel turns "—that was one chemist's way of describing w the benefits start mounting up when you display 'ASPRO'. splaying 'ASPRO', in fact, **ACCELERATES** business—CREATES USTOM for other lines, too, and so speeds-up turnover and reases profits. Give 'ASPRO' prominent display and you mediately get the full results of THE MOST ENTERPRISING ND ACTIVE ADVERTISING CAMPAIGN GOING ON IN THE OUNTRY. While well-tried methods of 'ASPRO' publicity are being sustained and expanded, every new method which proves of value is used to the full. The result is that

SPEEDWAY

# 'ASPRO' *is selling to a* GREAT POST WAR PUBLIC

ndreds of thousands of speed- and football supporters are ring the weekly 'ASPRO' gramme ; millions of cinema- rs are seeing the 'ASPRO' . Putting in the window a pro- ent reminder that YOU stock PRO' is the fastest way of making and permanent customers.

FILMS

Made by ASPRO LTD., Slough, Bucks

P.A.T.A.

# THE *Modern* ANTACID.

Magtriz Tablets are an effect combination of Magnesium Tris cate and Magnesium Hydroxi and provide prompt relief a prolonged control in all cases Hyperchlorhydria as recommend by the Medical Profession.

# MAGTRIZ

## DIGESTIVE TABLET

2 sizes, 7½d. and 1/6d.
Trade 4/- and 10/- per doz. plus P.T.
Both sizes packed in attractive outers.
Small size 2 dozen. Large size 1 dozen.

PAT

WESTMINSTER LABORATORIES LTD., Chalcot Road, London, N.W.1 Tel.: PRImrose 3395/6/7

*Women are asking, "Where can we buy it?"* ***dip permanent*** *plastic starch is selling!*

*Retail Price* **2/3** *a bottle. Attractive display stand available free.* ***dip*** *is supported by extensive advertising.*

Available through foremost wholesalers

## *IT SELLS ON SIGHT.*

When your customers see this package Feen-a-mint — the famous *original* chewi gum laxative—it sells on sight! It is smart cellulose-film wrapped and as display-wort as ever! Order to-day, from your usu wholesaler.

# Feen-a-mint

WHITE LABORATORIES LTD., MITCHAM, SURRE

# PRODUCTS IN CONSTANT DEMAND

★ **OPTABS**
*EYE LOTION TABLETS*

★ **INFLUCOL**
*ORAL VACCINE FOR THE COMMON COLD*

★ **EPISEPS**
*GERMICIDAL THROAT PASTILLES*

★ **SOMINOX**
*SLEEPING TABLETS*

These established products are now marketed by the Parent Company, Optabs Limited, from their new premises at Kemtheutic House, Bradford. The simplification of ordering, invoicing and payment will greatly help our many friends in the profession.

*Enquiries will be given our immediate attention.*

**Optabs LIMITED**

*Telephone:* BRADFORD 28797 (10 lines) *Telegrams:* KEMTHEUTIC, BRADFORD

# A Story Which KEEPS FAMOUS LINES MOVING!

On these lines convincing advertisements are constantly reminding your customers to—

1. Shampoo the hair with "CREMEX" Shampoo.
2. MASSAGE THE SCALP WITH "HARLENE" HAIR GROWER AND TONIC FOR 2 MINUTES EACH DAY.
3. Dress the hair with "HARLENE" Wave Setting Lotion, Golden Wave Set, Hair Cream or "UZON" Brilliantine.

**Famous For Over 60 YEARS**

*The popularity of these "HARLENE" lines never wanes!*

**HARLENE** Hair Grower and Tonic.

Camomile Golden Hair Wash.

Camomile Shampoo Powders.

Hair Cream.

Wave Setting Lotion.

Golden Wave Set.

CREMEX Shampoo Powders.

UZON Brilliantine.

ASTOL Hair Colour Restorer.

# HARLENE

THE SURE

# HAIR LINE

EDWARDS HARLENE LTD.

58 GOUGH STREET, W.C.1

P.A.T.A.

# 'Sleek'

TRADE MARK

PLASTIC ADHESIVE STRAPPING

'Sleek', the up-to-the-minute zinc oxide strap is the latest development in the surgical p field. Its smooth, plastic surface resists wat and antiseptics, and discourages dirt and s 'Sleek' cannot fray or catch in clothing. coloured, inconspicuous. Plentiful supplies available. On spools, 5 yd. lengths, 1" and 2" widths.

Herts Pharmaceuticals Ltd., Welwyn Gdn. City.

# Cradle Ca

★ *Quickly Cleared b*

# HIoLITE

HIoLITE clears 'Cradle Cap' in two or t applications. It is a boon to mothers. HIol formulated on sound Dermatological principles, it's soothing action gently and thoroughly clea the scalp and hair protecting against further infect Recommend HIoLITE and sales will boom. Supp now available. Retails at 1/4½. per bot

*Distributed by*

**NEWBERY & PHILLIPS L**

VICTORIA HOUSE SOUTHAMPTON ROW LONDON W

*Manufactured by* C. DRAPER & CO., LTD. Twyford, B

# Firm Favourites!

*with every member of the family . . . .*

## CUTICURA PREPARATIONS

(MEDICINAL AND TOILET)

**SOAP · OINTMENT**

**TALCUM POWDER · SHAVING STICK**

These grand aids for skin-care have been giving confidence and satisfaction for over 65 years. Profits are good — Advertising consistent and widespread. Sales-promoting window displays always at your service.

*The following attractive products, each with a universal appeal, will shortly be added to the popular Cuticura Range:*

**HAND CREAM · BABY OIL**

**SHAVING CREAM · LIQUID ANTISEPTIC**

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*British Distributors:* NEWBERY & PHILLIPS LTD.
203, Victoria House, Southampton Row, London, W.C.1
TELEPHONE: HOLBORN 1564

*for*

THE POTTER DRUG & CHEMICAL CORPORATION
205-207, Victoria House, London, W.C.1

# The fall of the leaf,

nature's visual sign of the approach of winter, the time when constantly changing temperature increases the incidence of the common cold.

P.A.T.A.

Serocalcin is acknowledged by many authorities to be an effective preparation for assisting in the prevention and treatment of colds. Many thousands will shortly be starting their prophylactic course.

Meet this demand for Serocalcin by ordering your supplies as soon as possible. Packed in 20's and 60's.

★ **Pharmacists are reminded that the sole selling agents for Serocalcin in the United Kingdom are J. C. Eno, Ltd., Watford, Herts (Watford 7761), to whom all orders and enquiries should be sent.**

# SEROCALCIN

**FOR THE PREVENTION & TREATMENT OF COLD**

HARWOODS LABORATORIES LTD · WATFORD · HERTS


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*The* CHEMIST AND DRUGGIST SUPPLEMENT

28 ESSEX STREET, LONDON, W.C.2.

SEPTEMBER 11 1948

is Supplement is in-
rted in every copy of
e Chemist & Druggist


# ORRIDGE & CO. (Estd. 1846)

**South Africa.** We have four substantial businesses for sale in the Durban district. Full particulars upon application.

**Essex, Country Town.** Turnover last year over 3,000. Net profit after charging heavy expenses er £2,500. New lease at £150 per annum. ice, £6,500, plus stock, estimated at £2,000.

**Home County.** Country retail business. Vener emigrating. Established 50 years. Increasing rnover; last year £4,700. Net profit nearly ,000. Very good living accommodation. Freeld property for sale. Large garden with several it trees. Price of goodwill, £1,500. Full parulars upon application.

**London.** Wholesale drug business for sale. ecialities. Net profit under management last r over £3,500. Security of tenure. Valuable cks. Travellers. Increasing business. Total purase price, including valuable stock, approxitely £12,000.

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**6. £5,250** secures directorship and very substantial income with 50 per cent. holding in ethical manufacturing business in West of England. Vendor retiring and purchaser will have option of acquiring the remainder of the shares. Average net profit £3,260 per annum. Considerable scope.

**7. North London.** Vendor buying another business. Well-established good-class concern. Turnover last year nearly £6,500. Net profit nearly £1,400. Very reasonable rent. Total purchase price £4,000 to £4,250.

**8. South-east London.** Main road drug store with confectionery. Turnover averages £150 per week. Considerable scope. Nice living accommodation. Long lease at reasonable rental. Price £4,000, plus stock, in all, under £5,000.

**184 STRAND • LONDON • W.C.2**

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*Branch Offices:* 36 Cannon St., Birmingham, 2. Phone: Midland 6547
77 High St., Shirley, Southampton. Phone: Southampton 71708

**For SALES, PURCHASES, VALUATIONS, STOCKTAKING *and* ASSESSMENTS**


## BUSINESSES WANTED

*or 36 words or less, 3d. for every additional word*

**RMACIST** desires to purchase business with accommodation if possible. Would prefer rrangement to take over gradually. All parrs treated in strict confidence. Box 4/561.

## BUSINESSES FOR DISPOSAL

*or 36 words or less, 3d. for every additional word*

**LLENT OPPORTUNITY** for chemist to acquire od, sound, old-established business in busy ping centre, London E.1. Owner retiring after ears. Living accommodation available. Parrs on request. Box 4/542.

f (approx. 16 miles to City). Drug store in town, offering scope for chemist. Mixed y trade. Nine-roomed house in first-class conn. Large garage, two entrances. Price £1,500, Freehold £8,000. Box 4/593.

**T MIDLAND TOWN.** Chemist and druggist s. Ideal, sound business. Old established. road position. Thickly populated. Including old property. Ex. accommodation. £5,500 stock). Substantial mortgage arranged. ts, Gordon Bentley, Ltd., St. Martins Pl., d St., Birmingham, 1. Midland 4822.

**WHOLESALE MANUFACTURING** chemists' (est. 1917) business for sale. Toilet licence. Full information and audited accounts available. Freehold property. Main road, Liverpool. Patented and proprietary licences. Capital required approx. £6,000. Box 4/533.

## FOR SALE

*8/6 for 36 words or less, 3d. for every additional word*

**BACKING PAPERS** suitable 120 and 620 roll films; new. Limited quantity only at £6 15s. per 1,000 Spools also available. Size 127 at £6 per 1,000. Sent C.O.D. if required. Box 4/536.

**FOR SALE.** 200 lb. pure di-glycol laurate. What offer? Box 4/591.

**FOR SALE.** 10,000 slip-lid flat plain 1½ oz. tins; new. 56/- per 1,000 to clear. Box 4/585.

**FOR SALE.** 120 spools and backing papers (in one piece) 54/- per gross 120/620 backing papers only (in one piece) 36/- per gross. Please send 6d. for sample, to Brooks Pharmaceuticals, Ltd., 882 High Rd., North Finchley, N.12.

**LABORATORY BALANCE** (Oertling) in glass case with two drawers. Spirit-level adjustment. Two rider arms correct to 0.1 mgm. Best offer over £10. Chemist, 20 Sussex St., S.W.1.

*Vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagements Order, 1947.*

# SITUATIONS OPEN

***8/6 for 36 words or less, 3d. for every additional word***

## RETAIL (HOME)

**A SMALL LIMITED COMPANY** will shortly require experienced branch manager pharmacists in the Hounslow and Southall areas of London. The salaries respectively are £540 per annum and £575 per annum. Accommodation is available in both instances. The positions offered are permanent, progressive and pensionable. Should you be interested an appointment will be arranged to discuss matters further. Box 4/589.

**ASSISTANT** and apprentice required by chemist. Mackavoy, Oswestry.

**ASSISTANT** (lady) to attend to chemists toilet counter. North-West London. Apply Box 4/487.

**BOOTS THE CHEMISTS** have vacancies in a number of districts for qualified assistants, male and female. Salary (male) Central London £8 15s. to £10 5s. Metropolitan District £8 7s. 6d. to £9 17s. 6d. Provinces £8 to £9 10s.. (Female) Central London £8 5s. to £9 15s. Metropolitan District £7 17s. 6d. to £9 7s. 6d. Provinces £7 10s. to £9 according to age. Engagements are on a permanent basis with good prospects and eligibility for pension, life assurances, etc. There are also a number of vacancies for unqualified assistants fully trained in the business and including those dispensers who have been released by doctors, etc. Good remuneration with a view to permanency, pension scheme, etc. A bonus is paid to all staff engaged in dispensing. Applications should be made to Retail Staff Department, Station St., Nottingham, stating age, experience and districts preferred.

**CLERK,** male or female, required for the costing of chemists' prescriptions. Must be familiar with the retail drug business, and preference given to one able to type. Permanency with good prospects. Apply Box 4/493.

**CORNWALL.** Pharmacist manager required for good-class business in attractive, small town. Must be able to develop dispensing department and be good all round. Excellent salary to suitable applicant. Apply Box 4/539.

**EXPERIENCED,** unqualified staff (male or female) required for retail pharmacies, Woolwich area. Must be able to dispense. Give full particulars. Write Box 4/537.

**EXPERIENCED MANAGER** required for good-class branch in the Maida Vale district. Salary £11 per week and commission. Excellent prospects. Permanent appointment to capable man. Apply Box 4/556.

**LEEDS.** Manager for good-class suburban pharmacy. Excellent opportunity and comfortable post for man with initiative able to work with minimum supervision. Commisson and/or share of profit arrangement after trial period. Possibility of house to rent later. Box 4/453.

**LINCOLNSHIRE.** Country town. Qualified assistant (either sex); elderly pharmacist required for an interesting business situated in beautiful country within easy reach of seaside. Box 4/447.

**MANAGER** required for small pharmacy in Chelsea. Preferably with experience of this area. Salary to commence £550 per annum and commission. Permanent congenial post. Apply Box 4/557.

**M.P.S. REQUIRED** as superintendent. Situation would suit an elderly gentleman. Very light duties and reasonable hours. Lunch and tea provided. Excellent remuneration offered. Apply D.B., 8 Market Pde., Portland Rd., S. Norwood, S.E.25.

**MID-KENT.** Qualified chemist required for cou branch (near Tunbridge Wells). Pleasant dist Cottage available if desired. Write or phone particulars, salary required, to Verrall, Che Marden. Phone 223.

**ORRIDGE & CO.,** Employment Agency, 184 Str W.C.2. Temple Bar 9212/3. Branches at So ampton and Birmingham. Enquiries invited f all employers seeking staff. Many pharmacists unqualified assistants available for retail and wh sale. Representatives also requiring situati Reasonable terms. Write to 184 Strand, W. for particulars.

**PHARMACIST** required for depôt dispensary West End. Must be thoroughly up-to-date, good knowledge of stock-keeping. Suit ne qualified ex-Serviceman. Position has exce prospects. Apply, giving full particulars of experience, to Box 4/558.

**PHARMACIST** for dispensing and counter. gressive position for right man. Small flat a able, John W. Howorth, Ltd., 160 Central D Blackpool.

**PHARMACIST** (man or woman) take charge branch working-class district. South-West Lon Living accommodation. Apply Box 4/488.

**QUALIFIED MANAGER** required for busy p macy. Hours from 9 a.m. to 7.30 p.m., with bank holiday, Sunday or Thursday half-day du Salary £750 per annum. Apply, giving name two references and all particulars, to F. H. sell, 4 Carlton Terr., Green St., E.7. Tel. 1813.

**QUALIFIED PHARMACIST** wanted for fine, established pharmacy in main street of S borough. Apply, giving particulars and salary quired, to Charles Westall, Ivy House, Scarboro

**QUALIFIED PHARMACIST** and unqualified dis sers required. Excellent oportunity of acqui first-class dispensing experience under T.S.A. lic in modern and fully equipped general and st dispensaries. Full particulars to L. Rowlanc Co., Ltd., Chemists, 9 High St., Wrexham, Wales.

**ST. HELENS.** Pharmacist (either sex) would elderly person as cover. Pleasant shop and post for right applicant. Owner willing to Apply Box 4/538

**TIMOTHY WHITES & TAYLORS** have vacancie several districts for the following staff: (a) p macists as managers or qualified assistants, acc ing to experience. (b) dispensing assistants, qualified, male or female, preferably fully trai including dispensers released by doctors. Good ditions of employment are offered, including sions scheme. All engagements are with a vie permanent appointment. Apply by leter to R Staff Department, 70 Vauxhall Bridge Rd., S.

**WESTON-SUPER-MARE.** Experienced assis (male) required, qualified or unqualified. A Managing Director, Lewis Wing, Ltd., 86 Re St., Weston-super-Mare.

## LOCUMS WANTED

**LEEDS.** Locum required for one month or lo commencing September 20. Possible perman if mutually suitable. Lionel Kirby, Ltd., H Chambers, Vicar Lane, Leeds, 2.

## WHOLESALE

**A MANUFACTURING** proprietary firm require presentatives for (1) West of England and Kent, Surrey and Sussex. A live connection alre exists on these territories and good income assured for men of experience and initiative. muneration by salary, commission and exper Full details to Box 4/594.

**MINISTRY.** Dispenser/Medical Storekeepers uired at R.A.F. Medical Equipment Depôt, ssington, Surrey. British subjects, under 50, er sex Successful applicants required to pass edical examination. Rate of pay: Males, 110s.; ales, 96s. per 44-hour week. Applications by er only, stating age, qualifications, employ- t and experience to date, to the Commanding cer by 1/10/48.

**VERTISING EXECUTIVE** required in London by eading firm of manufacturing chemists. Appli- ts should be experienced in writing medical and rmaceutical literature. The post is a per- nent one, is highly paid, and offers exceptional pects to a man with a natural flair for this cialised work; and only those with the necessary lifications should apply. Please give details of past experience, etc., to Box 4/570.

**OLD-ESTABLISHED** London house require a ng qualified assistant chemist, capable of con- ting routine analysis of products, and super- on of poisons. Write, giving full particulars of experience, salary required, to Box 4/596.

**OLD-ESTABLISHED FIRM** of substance in the umery field is prepared to appoint a full-time resentative to the West London territory. This nment is in the top class and can only be d satisfactorily by a man of calibre and vision. uneration is on salary, commission and ex- es basis, and replies should state age, educa- and details of past and present employment he most strict confidence. Box 4/559.

**ALYTICAL CHEMIST** required by London manu- uring chemists. Practical works experience of eral routine analysis and alkaloidal assays of s, including opium, essential. 5-day week. ly, giving particulars of experience, salary, etc., Box 4/173.

**ISTANT** with some pharmaceutical experience uired for pill department of manufacturing nists in London area. Apply with full particu- and salary required, to Box 4/598.

**ISTANT EXPORT MANAGER** required in Lon- by a firm of manufacturing chemists having rge and rapidly growing turnover in all parts the world. Only those experienced in the rmaceutical industry need apply. The post is ermanent one, offering unique prospects to a man of real ability. A good salary will be to the successful applicant capable of under- ng increasing responsibility. Please reply, giv- details of age, previous experience, etc., to s Manager, Box 4/569.

**ISTANT** to managing director required in lesale chemical company. Some knowledge of industry preferable, but not essential. Good ing for keen and ambitious man. Write full ils in confidence, to Box 4/590.

**RK** (male) quick at figures for despatch dept., ufacturing chemists, Regent's Park district. genial working conditons, canteen facilities. particulars, age, salary, etc., to Box 4/534.

**ABLISHED MERCHANT HOUSE** require: (a) tleman experienced in the glue and gelatine stry capable of developing existing business. Gentleman with recent experience in the ex- market with particular reference to heavy fine chemicals. Full and precise details of riences will be appreciated and treated in t confidence. Box 4/555.

**EPTIONAL OPPORTUNITY** occurs for unquali- man to take charge of pricing department, gh. Hoseason & Co., Ltd., Manufacturing mists, Atlas Laboratories, Chapel St., Man- ter. Position will be well paid and offers nanency. Reply marking envelope "Confiden- " to Managing Director.

**ERIENCED TRAVELLER** required for toilet hware and hardware, etc., to call upon che- s and hardware stores. Every assistance given apable applicant. References required. Box 2.

**The Institute of Chemists-Opticians,**
**2 Clements Inn, Strand, W.C.2**

For Syllabuses of the Institute's Examinations and all further information, write to the Hon. Secretary, J. Ross-Mansell, Ph.D., B.Sc.

**IMPERIAL CHEMICAL INDUSTRIES, LTD.,** have vacancies for pharmacists with literary ability and experience in the compilation of literature and the provision of information relating to medical and veterinary pharmaceutical products. Applications with full particulars should be addressed to Imperial Chemical (Pharmaceuticals), Ltd., Fulshaw Hall, Wilmslow, Manchester. This post is excepted from the provisions of the Control of Engagement Order, 1947.

**JOHNSON AGENCIES (PROPRIETARIES), LTD.,** require experienced representative for (1) Kent, Surrey and Sussex and (2) West of England to take over and enlarge good existing connections among wholesalers and retailers. Salary, commission and expenses. Write Clarendon Works, 32-40 North St., Horsham.

**KEEN REPRESENTATIVE** required to call upon high-class retail establishments in the London area to introduce exclusive perfumes already distributed and stocked by leading wholesale hairdressers. Remuneration by commission only but sound future prospects of sales executive position will be open to appointed applicant proving successful. Applications also invited from representatives covering Provincial and Scottish territories. Fullest details to Box 4/578.

**MANAGER** Development Laboratory. Firm of fine chemical manufacturers in the Home Counties has a vacancy for a chemist, B.Sc. Hons. Degree, preferably with a B.Pharm. or Ph.C., to take charge of a newly-formed development laboratory. The position is permanent and a good salary is offered. All replies, which will be treated in strict confidence, detailing qualifications, experience and present salary, to Box 4/560.

**MANUFACTURERS** of established toilet line and other products require representatives in each of the following territories: (a) Birmingham and the West Midlands. (b) Bristol and the South-West. (c) Manchester and District. Well-established connection with retail chemists and allied trades absolutely essential. Must possess own car. Send details in confidence. Box 4/544.

**MEDICAL CONTROLLER.** Applications are invited from the medical profession for appointment as controller of all medical activities of British Schering Group of companies. The appointment involves advising directorate regarding development of new products, arrangement of therapeutic trials and responsibility for efficient organisation and running of a medical service department and will provide for some measure of independent hospital practice. Applications will be treated in confidence and should be addressed to the Managing Director, British Schering Ltd., 167-169 Great Portland St., London, W.1.

**OLD-ESTABLISHED** manufacturing chemists have openings for experienced representatives requiring additional lines (well-known toilets and medicinals) for the following territories. North and South Wales, Bristol area, Midlands, Lancashire and Home Counties, Devon, Cornwall and Somerset. Please give full details of territory covered, lines already carried, age and remuneration expected, etc. Box 4/491.

**REPRESENTATIVE** required to represent firm of C.F. manufacturing chemists, in Lancashire and Scotland. Qualified representatives preferred but not essential. Only representatives with sound standing should apply. Salary, expenses. Write, giving full particulars, to Box 4/562.

## Representative Required

A live representative required, with established connections amongst wholesale chemists, hospitals, etc., to secure orders for bulk supplies of pharmaceutical range of compressed tablets. Excellent opportunity for man who has drive and initiative.

*Write giving details of past experience, salary required to Managing Director :*

**Box 4/531**

**PERSONAL SECRETARY** required for managing director. Applicants should possess initiative, have good basic education and be efficient stenographer-typist familiar with modern filing methods. Applications, in confidence, to Managing Director, British Schering, Ltd., 167-169 Great Portland St., London, W.1.

**PROGRESSIVE MANUFACTURERS** of fine quality and attractively packed pharmaceutical specialities require real salesmen to take charge and develop following territories:—(1) North London and Middlesex; (2) South London and Surrey; (3) Southern Counties; (4) Home Counties; (5) Staffs, Derby, Notts, Lincoln; (6) North Lancs, Westmorland and Cumberland. The positions offer exceptional scope with generous commencing remuneration. Applicants must provide record of long established connections. M.P.S. qualifications and car owners preferred, but not essential. Only salesmen of outstanding qualities and personality should apply. Sole agencies considered on certain territories. Apply fully in confidence, giving age, experience, territory and frequency of calls, etc. Box 4/566.

**REPRESENTATIVE** required by old-established London manufacturing chemists to cover Midlands and Eastern Counties. Must be resident in or near Midlands and a car owner. Applicants must have sound knowledge of the trade. Preference will be given to applicants having previous travelling experience on this territory. Box 4/586.

**REPRESENTATIVE** required by old-established London house of Midland territory. Applicants should have live connection with retail chemists and preferably some previous retail experience, not necessarily qualified. Please state age, experience and remuneration required. Box 4/595.

**REPRESENTATIVE** required at once. Salary and commission, having live connection with chemists, stores, Co-ops., etc., to carry popular priced perfumes, colognes, gift sets, etc. Full particulars to Box 387, c/o George Murray (Advertising), Ltd., 184 Strand, London, W.C.2.

**REPRESENTATIVE** required for Midland Counties, and Yorkshire with good connection chemists for nationally advertised proprietary. Good prospects. Salary, commission, etc. Write Box AC.32453, Samson Clark's, 57-61 Mortimer St., W.1.

**REPRESENTATIVE,** part-time, calling on chemists and stores in South London, required by manufacturing chemists to handle additional lines in medicinal tablets and pills on generous commission terms. Write Box 4/575.

**REPRESENTATIVE** required for London and Home Counties (South of Thames) with good connection chemists, for nationally advertised proprietary. Good prospects, salary, commission, etc. Write Box A. C., 32452, Samson Clark's, 57-61 Mortimer St., London, W.1.

**REPRESENTATIVE** required calling on chemists, druggists and stores. Good commission. Part or full-time. All areas. Apply Belleville, Ltd., 14 Wendell Rd., London, W.12. Shepherds Bush 1870.

**REPRESENTATIVE** with first-class connec amongst multiples, wholesalers and retail hardw drysalters, grocers, chemists, wanted by firm ducing undoubtedly finest cheapest non-ratio soap. Liberal wages, commission, expenses, or c mission only if preferred. Address with full ticulars 0394, Wm Porteous & Co., Glasgow.

**REPRESENTATIVE.** An opportunity occurs for appointment of a representative to call on chem grocers and similar stockists in South-West La shire, the Isle of Man, and Northern Ireland, ing well-known and widely advertised quality ducts in great public demand. Good remunera and expenses; car provided; applicants must prepared to live in Liverpool. First-class re of selling to the trade is required. Application writing, stating age, experience and salary, to Box 4/494.

**REPRESENTATIVE** required by old-established well-known manufacturer of fine chemicals to on the manufacturing pharmaceutical trade the Midlands, North of England and Scotla Car can be provided. Salary and expenses. Ap cants should have sound knowledge of the chemical trade. Write in confidence, stating experience and salary required. Box No. E Street's, 110 Old Broad St., London, E.C.2.

**REPRESENTATIVES** required to introduce a line to wholesale chemists on commission ba All parts open for representation. Please reply Box 4/486.

**REPRESENTATIVES,** part-time, required on co mission basis to handle machines required by ph maceutical, cosmetic and allied industries in Scotland, (2) Midlands, and (3) Bristol area. O energetic men considered. Box 4/576.

**SALES MANAGER** required in London by a f of manufacturing chemists, with a large home export trade. A man of wide experience in sa development is sought, having pharmaceuti qualifications, and capable of initiating sa schemes, controlling representatives, etc. The p is an important one, offering unlimited scope a good salary will be paid. The successful app cant will work closely with the Managing Dir tor, relieving the latter in due course of much the work at present undertaken by him. Ple reply (in strictest confidence) giving age, full tails of previous experience, etc., to Managi Director, Box 4/571.

**SUGAR COATER.** An opportunity occurs for first-class coater with experience in all types plain and coloured work. To take charge of partment in old-established London house. Wri giving details of age, experience and salary quired. Box 4/597.

**TECHNICAL REPRESENTATIVE** required with go chemical knowledge to investigate the marketi and to introduce fine chemicals for industrial pu poses. Remuneration will be by salary plus e penses. Applicants are asked to give full partic lars and salary required, in strict confidence. B No. E 521, Street's, 110 Old Broad St., E.C.2.

**THE WELLCOME FOUNDATION, LTD.,** ha vacancies at their Dartford Works, for (1) La pharmacist to assist in the administrative Sectio dealing with formulæ and labels. Hospitals expe ence and knowledge of languages helpful but n essential. (2) Young pharmacists with Ph.C. equivalent qualification to take charge of man facturing and development sections. Applicatio to the Works Director, Wellcome Chemical Work Dartford, Kent.

**TRAVELLERS WANTED.** Experienced representa tives wanted for Liverpool and North Wales an Glasgow and West of Scotland by manufacture of surgical dressings, sanitary towels, and druggis sundries; to call on chemists (also drapers fo sanitary towels only); connection an advantage Salary, commission and expenses. Box 4/599.

**UNQUALIFIED MAN** required for wholesale manu facturing chemists' veterinary work in Shrewsbury Single, aged 25 to 30. Apply Box 4/335.

**QUALIFIED LADY ASSISTANT** required for test- and works laboratory of chemical manufac- rs. Applications with full particulars, training, erience, if any, age and salary required, to 4/532.

**QUALIFIED MAN,** experienced dispenser, for nists' manufacturing laboratory. Sound posi- for suitable man. London. Box 4/461.

## WHOLESALE (OVERSEAS)

**NG KONG.** Required by a leading company, oung pharmacist. Wholesale and manufactur- experience an advantage. Engagement under years' agreement with commencing salary and vances around £800 per annum. Full informa- furnished applicants on receipt of details of rience, education and other personal particu- Box 4/574.

# SITUATIONS WANTED

*or 18 words or less, 1d. for every additional word*

## RETAIL (HOME)

**MISTS' ASSISTANT,** 13 years' experience retail macy, at present employed Eire, seeks position ngland. Tall, of good appearance, well edu- . Can supply excellent references. Expert ow dresser, quick and accurate dispenser. 33 years. Anything considered. Box 4/495.

**RIENCED PHARMACIST** now managing busy macy with large staff desires change to similar in London area, which can offer remuneration gion of £1,000 per annum. Accommodation equired. Box 4/587.

**RMACIST,** (40) with 20 years' experience of and wholesale business offers services on ate partnership or succession basis. Genuine, worthy person, willing to merge capital with ambitious pharmacist to expand or acquire lass business. Box 4/563.

**MACIST** residing in Surrey (14 miles from on), with over 25 years' first-class experi- in wholesale and retail pharmacy, desires essive managerial or executive position in branch. Highest credentials. Box 4/549.

**KTAKING,** quiet and efficient workmanship. 30 years' practical experience. Personal super- . C. W. Playfoot, 8 Aylward Rd., Merton S.W.20. Tel. Liberty 4104

**UALIFIED ASSISTANT** (34), married, desires Birmingham. 19 years' experience, mainly sing. Please give full particulars. Box

**IG COUPLE** (both qualified—husband teach- with baby, urgently need rooms. Would do me duty. Box 4/541.

## WHOLESALE

**IST, WORKS MANAGER** (doctor of pharma- al chemistry). 15 years' practical experience nufacture of high-class cosmetics, perfumes, soap substitutes, paints and general house- products. Own formulas. Fully conversant planning and layout of factories, installation aintenance of machinery, staff control, super- of packing, etc. Desires congenial appoint- Part-time engagement considered. Salary, duction bonus. Box 4/519.

**IST.** All-round expert in manufacturing cos- perfumeries, household products, desires ible position or wishes to act as consultant. /564.

**EXPERIENCED** warehouse foreman now disengaged, with export packing experience, stock recording and general duties. Box 4/600.

**FIRST-CLASS REPRESENTATIVE,** calling chemists, departmental stores, London and Middlesex, with excellent connection, desires change with firm of repute. Highest references. Salary, commission, expenses. Box 4/579.

**FIRST-CLASS SALESMAN,** over 20 years' experi- ence, with strong connection retail and wholesale chemists, Co-op. stores, departmentals, in Northumberland, Durham, Westmorland, Cumber- land, North Yorkshire, desires change. Must be firm of repute, paying salary, commission and ex- penses, in return for goodwill and conscientious work. Excellent references. Box 4/553.

**IRISHMAN** (experienced representative), now resi- dent England, shortly returning to Eire, requires good agencies. Box 4/554.

**MEDICAL REPRESENTATIVE** (pharmacist) conduct- ing medical propaganda at the highest level desires change; well known to doctors, chemists, and hos- pital staffs in Lancashire. Own car. Sound reasons for desiring change. Please state salary and ex- penses offered in reply. Box 4/565.

**PHARMACIST** with 15 years' manufacturing and business experience in an executive capacity seeks appointment with a manufacturing house either on the technical or business side. Box 4/552.

**PHARMACIST,** age 36, with seven years' experience as works manager and production of emulsifying waxes, carded chemists' lines, tablet making, works control and general manufacturing, seeks change. Possesses practical engineering knowledge. Position sought is one offering scope for advancement. Box 4/481.

**TIME STUDY ENGINEER** (fully experienced) re- quires post with firm of manufacturing chemists desiring increased production. London area pre- ferred. Box 4/567.

# APPOINTMENTS

## THE LONDON PHARMACEUTICAL COMMITTEE

invite applications from Registered Pharma- cists (male) age not above 34, for immediate appointment as Assistant Secretary with a view to full Secretaryship later.

Applicants should have had good retail ex- perience, including N.H.I. dispensing, organis- ing ability, knowledge of local pharmaceutical organisation, experience of office and secretarial duties. Salary is progressive, commencing at £500 p.a., plus superannuation. Applications, giving full details, qualifications, experience, etc., should reach the Secretary, 233/6 Bank Chambers, 329 High Holborn, W.C.1, before the 18th September, 1948.

## BOTLEYS PARK HOSPITAL MANAGEMENT COMMITTEE

Registered Assistant Pharmacist for Botleys Park Hospital, Chertsey, Surrey. J.N.C. (Hospital Staffs) salary, viz., £370 inclusive; annual increments up to £450 p.a. Previous experience may determine commencing salary. Recently qualified pharmacists eligible. Whole- time, established, pensionable, subject to medi- cal exam. Application, stating age, qualifica- tions, experience, with copies of not more than three recent testimonials, to Physician Superintendent, Botleys Park Hospital, Chert- sey, Surrey.

## CHASE FARM HOSPITAL, ENFIELD, MIDDLESEX

DEPUTY CHIEF PHARMACIST required mid-September. Applications invited from registered Pharmacists with not less than three years' hospital experience after qualification. Salary according to J.N.C. (Hosp. Staff) scale. Non-resident, established and pensionable staff, subject to medical examination. Application, stating age, qualifications, experience, with copies of up to 3 recent testimonials, to MEDICAL DIRECTOR of Hospital immeddiately. No forms.

## BRADFORD EDUCATION COMMITTEE

TECHNICAL COLLEGE, BRADFORD

Applications are invited for appointment as ASSISTANT LECTURER in CHEMISTRY in the College.

The salary according to the Burnham Scale, including allowances, may range from £300 to £660 per annum. Commencing salary according to qualifications and experience. The commencing salary may, subject to approval, be increased up to a maximum of twelve increments of £15 per annum in respect of approved service in industry.

Further particulars of the appointment and forms of application may be obtained from the Director of Education, Town Hall, Bradford, and completed forms should be returned to the Principal of the College within two weeks of the publication of this advertisement.

A. SPALDING,
Director of Education.

## EAST HAM MEMORIAL HOSPITAL

SHREWSBURY ROAD, LONDON, E.7.

LOCUM—Apothecaries' Hall Assistant. One week from September 13th. Apply to the Pharmacist.

## EXETER & MID-DEVON HOSPITALS' MANAGEMENT COMMITTEE

Royal Devon & Exeter Hospital, Exeter. Two ASSISTANT PHARMACISTS (male) required. Salary according to J.N.C. (Hospital Staffs) scale. Hospital experience preferred but not essential. The posts are subject to the National Health Service (Superannuation) Regulations. Applications, with full particulars and copies of not more than three testimonials, as soon as possible to the Secretary.

## KING'S COLLEGE HOSPITAL,

DENMARK HILL, S.E.5.

ASSISTANT PHARMACIST (registered) required. Salary and hours according to the J.N.C. scale. Applications with details of experience should be sent to The Pharmacist, at the above address.

## MIDDLESEX COUNTY COUNCIL

ASSISTANT PHARMACIST required at HILLINGDON HOSPITAL, Nr. Uxbridge, Middlesex. J.N.C. (Hosp. Staffs) scale £370-£450 p.a. inclusive. Similar experience may determine commencing salary. Established, pensionable, subject to medical examination. Recently qualified pharmacists considered. Application, stating age, qualifications, experience, enclosing copies of up to three recent testimonials to MEDICAL DIRECTOR, immediately, quoting D.444, CD. No forms. (Male candidates to state position with regard to Military Service.)

## MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIS for NORTH MIDDLESEX COUNTY HO PITAL, Edmonton, N.18. J.N.C. (Hospit Staffs) Scale. £370 to £450 inc. Similar e perience may determine commencing salar Whole time, established, pensionable, subje to medical examination. Applications, stati age, qualifications, experience, with copies up to three recent testimonials, to MEDICA DIRECTOR of Hospital immediately (quoti D.591 CD). No forms.

C. W. RADCLIFFE,
Clerk of the County Counc

## MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIS required at HAREFIELD COUNTY HOSP TAL, Harefield, Middx. J.N.C. (Hosp. Staf salary £370-£450 p.a. inclusive. Similar e perience may determine commencing salar Recently qualified pharmacists eligible. Who time, unestablished, possible establishment, su ject to medical examination. Application, st ing age, qualifications, experience, with cop of up to 3 recent testimonials, to MEDICA DIRECTOR at Hospital, IMMEDIATEL (quoting E.146 CD).

## REDHILL COUNTY HOSPITAL

EDGWARE, MIDDLESEX

REGISTERED ASSISTANT PHARMACIS required. J.N.C. (Hosp. Staffs) salary £37 £450 p.a. inclusive. Similar experience m determine commencing salary. Whole-tim established, pensionable, subject to medical e amination. Application, stating age, qualific tions, experience, with copies of up to thr recent testimonials, to Medical Director Hospital immediately (quoting D.815 CD). N forms.

## STAINES GROUP HOSPITAL MANAGEMENT COMMITTEE

BIOCHEMIST required at Ashford Hospit Ashford, Middlesex. Applications invited fro Graduates in Science to take charge of t Biochemical Section of the Laboratory. T appointment offers scope and time for int esting and original work. Considerable expe ence in medical biochemical methods is r quired. Non-resident pensionable, subject medical examination and one month's noti Commencing salary £685 p.a., rising by a nual increments of £25 to £760 p.a. pl London Weighting of £30 at 26 years a over (£20 p.a. under 26 years). Post vaca now. Applications, stating age, qualificatio and experience with names and addresses three references to Medical Director of Ho pital. Closing date 2nd October, 1948.

## STAINES GROUP HOSPITAL MANAGEMENT COMMITTEE

REGISTERED ASSISTANT PHARMACIS required at Ashford Hospital, Ashford, Mi dlesex. Salary on J.N.C. (Hosp. Staffs) sca £370 x £15 to £450 p.a. inc. Similar e perience will determine commencing salar Non-resident, whole-time, pensionable, subje to medical examination and one month notice. Post vacant now. Application, stati age, qualifications and experience, with copi of up to 3 recent testimonials, to Medic Director of Hospital immediately.

## THE UNITED LEEDS HOSPITALS

THE GENERAL INFIRMARY AT LEEDS

Applications are invited for the appointment f Assistant Pharmacist. Salary commencing £350 per annum plus meals, which will be rovided when on duty, but subject to adstment in the light of Scales to be made nown by the Minister of Health. National ealth Superannuation Scheme in force. Night nd week-end duty will be worked in rotation. revious hospital experience not essential. pplicants must reply in own handwriting, ating sex, age and experience, and also enose copies of not more than three recent stimonials to the House Governor, not later an 18th September, 1948.

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**NTS** required with existing connections hairsers, chemists, stores, able take up additional l selling lines toilet and beauty requisites. Very al commission. Please write Box 4/411.

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**WANTED—AGENCY FOR SWITZERLAND.** Swiss, at present resident in England, desires to settle down in Switzerland and take over representation of only first-class English firms (pharmaceutical specialities and fine chemicals) on commission basis or firm account. Twenty-five years' experience in building up sales organisation and calling on medical profession, chemists and manufacturers, etc. Box 4/548.

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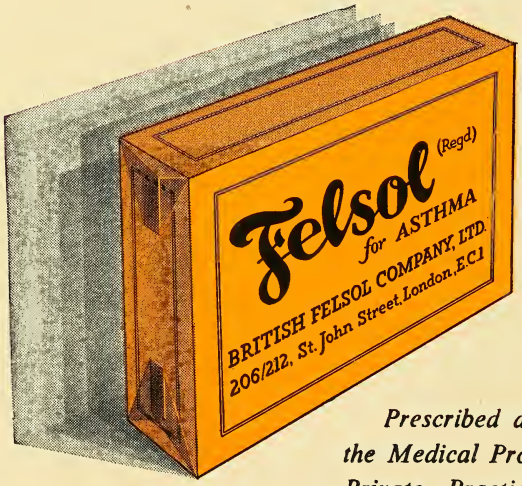


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